

CITY OF SOUTH LAKE TAHOE, DEPARTMENT OF PUBLIC WORKS

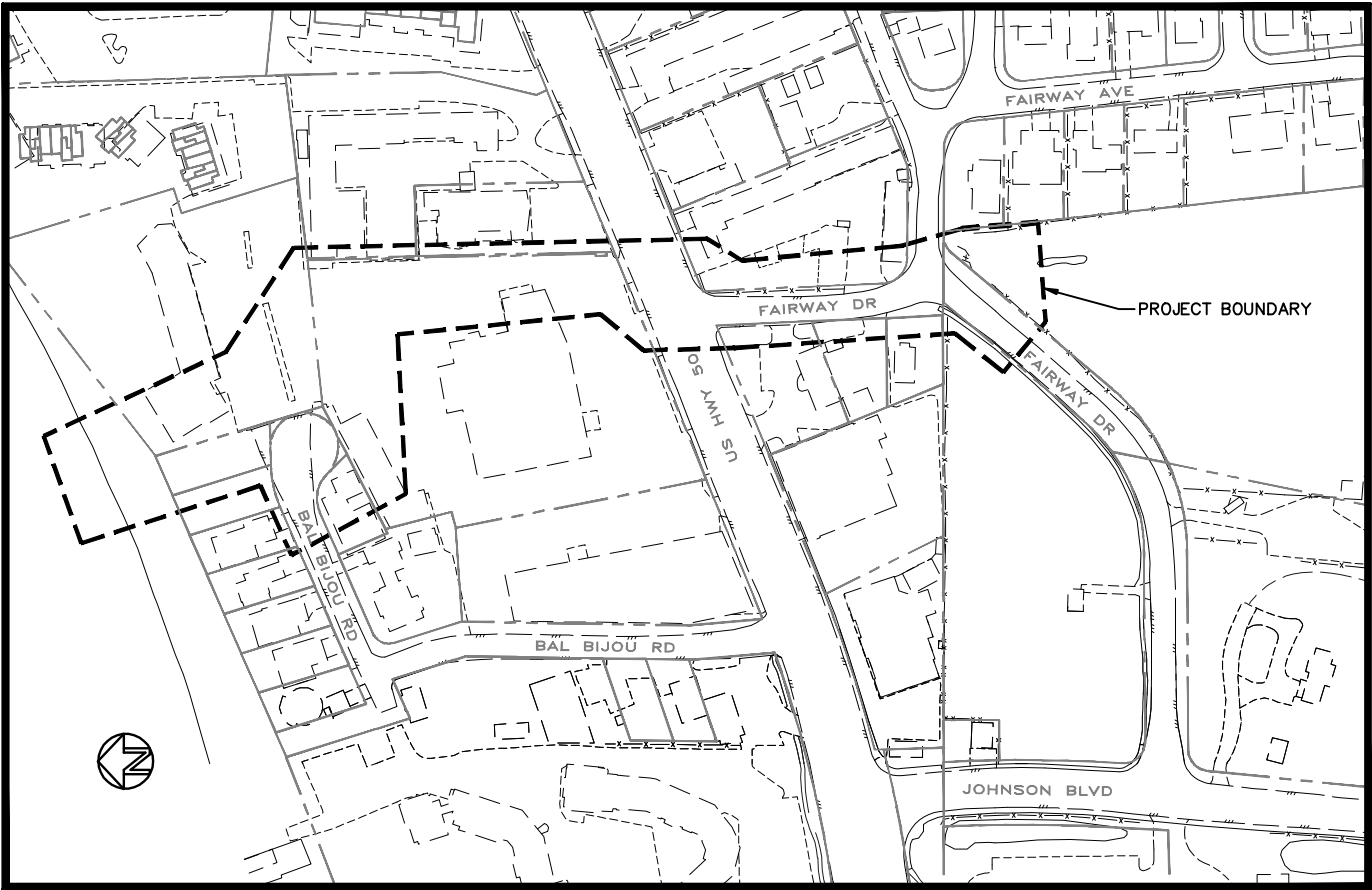
BIJOU CREEK CULVERT REPLACEMENT PROJECT

PWC# 2005-04; FORMAL BID NO. PWC 2005-04-BN-1

Cardno
ENTRIX

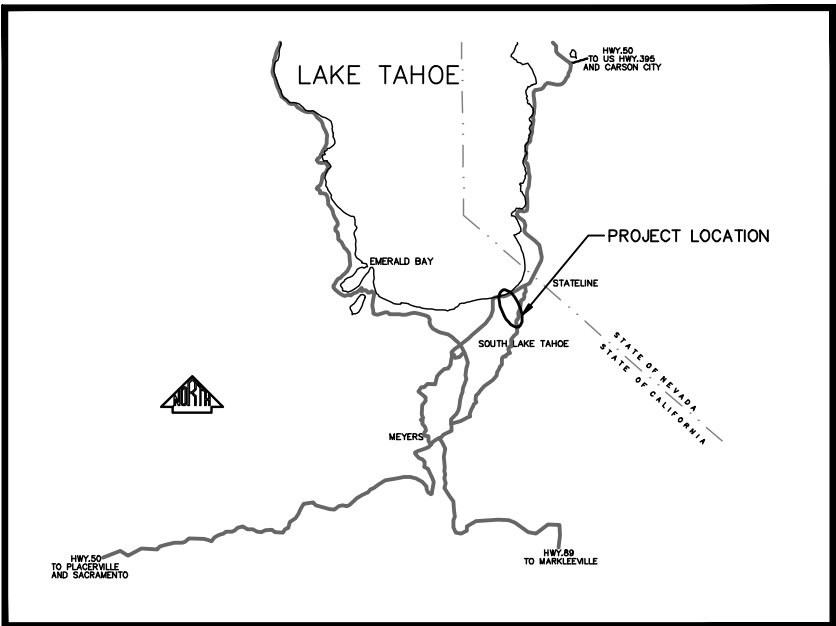
1048 SKI RUN BLVD.
SOUTH LAKE TAHOE, CA 96160
(530) 542-0201

90% DRAFT
NOT FOR
CONSTRUCTION



PROJECT LOCATION MAP

SCALE = 1:100



VICINITY MAP

N.T.S

SHEET INDEX

Sheet No.	Plan Sheet Title	Sheet ID
1	TITLE SHEET	I
2	GENERAL NOTES	II
3	SURVEY CONTROL	SC
4	STAGING AND STORAGE PLAN - 1	ST-1
5	STAGING AND STORAGE PLAN - 2	ST-2
6	TEMPORARY TRAFFIC CONTROL - 1	TC-1
7	TEMPORARY TRAFFIC CONTROL - 2	TC-2
8	TEMPORARY TRAFFIC CONTROL - 3	TC-3
9	TEMPORARY TRAFFIC CONTROL - 4	TC-4
10	TEMPORARY EROSION CONTROL	EC
11	DEMOLITION PLAN	DP
12	BOX CULVERT, STA 1+00 TO 7+00	C-1
13	BOX CULVERT, STA 7+00 TO 14+00	C-2
14	BOX CULVERT OUTLET HEADWALL	C-3
15	SEWER RELOCATION - FAIRWAY AVE & US HWY 50	S-1
16	SEWER RELOCATION - BAL BIJOU RD	S-2
17	POTABLE WATER MAIN RELOCATION	W-1
18	REVEG-RESTORATION PLAN	RR
19	TRAFFIC CONTROL DEVICES	TCD
20	TEMPORARY EROSION CONTROL DETAILS - 1	ECD-1
21	TEMPORARY EROSION CONTROL DETAILS - 2	ECD-2
22	DETAIL SHEET	D-1
23	DETAIL SHEET	D-2
24	DETAIL SHEET	D-3
25	DETAIL SHEET	D-4
26	DETAIL SHEET	D-5
27	DETAIL SHEET	D-6
28	DETAIL SHEET	D-7
29	DETAIL SHEET	D-8
30	DETAIL SHEET	D-9
31	DETAIL SHEET	D-10
32	DETAIL SHEET	D-11
33	DETAIL SHEET	D-12
34	DETAIL SHEET	D-13
35	DETAIL SHEET	D-14

INSTRUCTIONS TO CONTRACTOR:

48 HOUR NOTICE REQUIRED PRIOR TO COMMENCING WORK:
BEFORE COMMENCING WORK, ALL PLANS AND SCHEDULES MUST BE SUBMITTED, AND APPROVED IN CONFORMANCE WITH THE CITY OF SOUTH LAKE TAHOE CITY CODE, AND THE LATEST EDITION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY THE CITY 48 HOURS IN ADVANCE OF THE TIME OF COMMENCEMENT AT:

CITY OF SOUTH LAKE TAHOE
PUBLIC WORKS DEPARTMENT
530-542-6030

OWNER:

CITY OF SOUTH LAKE TAHOE

FUNDING AGENCIES:

CALIFORNIA TAHOE CONSERVANCY
US FOREST SERVICE

DESIGNED BY:

CARDNO ENTRIX, INC.
STEPHEN H. PECK, P.E.
CIVIL ENGINEER OF RECORD
STATE OF CALIFORNIA NO. C65113

APPROVED BY:

APPROVED BY: STANLEY B. HILL, P.E.
CITY ENGINEERING MANAGER
CITY OF SOUTH LAKE TAHOE
STATE OF CALIFORNIA NO. 53307

RECORD DRAWING:

ADJUSTMENTS MADE IN THE FIELD DURING CONSTRUCTION, I.E. "AS BUILT" INFORMATION, SHOWN HEREIN WERE MADE UNDER THE DIRECTION OF THE UNDERSIGNED CONTRACTOR AND ARE CORRECT AND COMPLETE TO THE BEST OF HIS/HER KNOWLEDGE AND BELIEF. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR CHANGES TO THESE PLANS NOT AUTHORIZED BY THE ENGINEER.

CONTRACTOR'S SIGNATURE

ENGINEER'S SIGNATURE
(STAMP OR SEAL)

NOTES:

CONTRACTOR'S LICENSE CLASSIFICATIONS: IN ACCORDANCE WITH THE PROVISIONS OF CALIFORNIA PUBLIC CONTRACT CODE SECTION 3300, THE OWNER HAS DETERMINED THAT THE CONTRACTOR SHALL POSSESS A VALID CLASS A LICENSE, OR A COMBINATION OF CLASS C-8, C10, C12, C13, C27, C29, C31, C32, C34, C42, AND C50 CALIFORNIA CONTRACTORS LICENSES AT THE TIME BIDS ARE RECEIVED FOR THIS CONTRACT.

CONSTRUCTION SHALL CONFORM TO THE CITY OF SOUTH LAKE TAHOE PUBLIC IMPROVEMENT AND ENGINEERING STANDARDS, THE SPECIAL PROVISIONS, AND THESE PROJECT PLANS.

CITY OF SOUTH LAKE TAHOE
DEPARTMENT OF PUBLIC WORKS
SOUTH LAKE TAHOE, CALIFORNIA
STANLEY B. HILL - CITY ENGINEERING MANAGER
PWC (2005) 04-04-BN-1

BIJOU CREEK CULVERT REPLACEMENT PROJECT

TITLE SHEET

SOUTH LAKE TAHOE, CALIFORNIA

DESIGNED / DRAWN

SPFWJD - JORREL

CHECKED

SP

DATE

12/17/19

SCALE

AS SHOWN

CARDNO ENTRIX JOB NO.

31441040.00

FIGURE NO.

I

**90% DRAFT
NOT FOR
CONSTRUCTION**



***NOTE: LEGEND PROVIDED ON SHEET SUPERCEDES THIS LEGEND**



CITY OF SOUTH LAKE TAHOE
DEPARTMENT OF PUBLIC WORKS
1982 TATA LANE
SOUTH LAKE TAHOE, CA 96150
WILLIAM B. HILL - CITY ENGINEERING MANAGER

AC	ASPHALT CONCRETE	G	GAS
AHW	AVERAGE HIGH WATER	GB	GRADE BREAK
APN	ASSESSOR'S PARCEL NUMBER	GH	HORIZONTAL
APPROX	APPROXIMATE	INST	INSTALL
BLDR	BOULDER	LF	LINEAR FEET
BLVD	BOULEVARD	L	LEFT
BMP	BEST MANAGEMENT PRACTICE	MIN	MINIMUM
CA	CALIFORNIA	MISC	MISCELLANEOUS
CALC/L'S	CALCULATIONS	N	NORTH
CF	CUBIC FEET OR CURB FACE	NTS	NOT TO SCALE
CUCFS	CUBIC FEET PER SECOND	OC	ON CENTER
C	CENTERLINE	P	PINE
CLF	CONSTRUCTION LIMIT FENCE	PCC	POINT OF COMPOUND CURVATURE
CLR	CLEAR	PL	PROPERTY LINE
CMP	CORRUGATED METAL PIPE	PP	POWER/UTILITY POLE
CO.	COUNTY	PRC	POINT OF REVERSE CURVATURE
CONC	CONCRETE	PROP	PROPOSED
CONST	CONSTRUCT	PUE	PUBLIC UTILITY EASEMENT
CP	CONTROL POINT	RD	ROAD
CSLT	CITY OF SOUTH LAKE TAHOE	REF	REFERENCE
CT	CALTRANS OR COURT	ROW	RIGHT-OF-WAY
CTC	CALIFORNIA TAHOE CONSERVANCY	R	RIGHT
CYC	CUBIC YARD	S	SOUTH OR SLOPE
DET	DETAIL	SD	SORM DRAIN
DI	DRAINAGE INLET	SEZ	STREAM ENVIRONMENT ZONE
DIAM OR Ø	DIAMETER	SF	SQUARE FEET
DIP	DUCTILE IRON PIPE	SHT	SHEET
DISS	DISSIPATOR	SS	SANITARY SEWER
DR	DRIVE	ST	SEDIMENT TRAP OR STREET
D/W	DRIVEWAY	STA	STATION
E	EAST	STPUD	SOUTH TAHOE PUBLIC UTILITY DISTRICT
EA	EACH	TN	TON
EC	EROSION CONTROL	TOB	TOP OF BANK
EG	EXISTING GRADE	TRPA	TAHOE REGIONAL PLANNING AGENCY
ELEV	ELEVATION	TYP	TYPICAL
ELEC	ELECTRIC	USFS	UNITED STATES FOREST SERVICE
EXP	EDGE OF PAVEMENT	VERT	VERTICAL
F	EXISTING	W	WEST OR WATER
F	FEET	WFB	WATER FILLED BARRIER
FES	FLARED END SECTION	W/	WITH
FF	FILTER FENCE	W/O	WITHOUT
FG	FINISHED GRADE		
FH	FIRE HYDRANT		
FL	FLOWLINE		
F/S	FINISH SURFACE		

CABLE TELEVISION	CHARTER COMMUNICATIONS, (775) 588-1077
NATURAL GAS	SOUTHWEST GAS CO., (530) 543-3225
ELECTRIC	NV ENERGY, (530) 541-2040
SEWER & WATER	SOUTH TAHOE PUD, (530) 544-6474
TELEPHONE	AT&T, (916) 453-7316
STORM DRAIN	CITY OF SOUTH LAKE TAHOE, DPW (530) 542-6030
TRAFFIC LOOPS	CALTRANS, (530) 582-8133

CAUTION! ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE AND NEED TO BE POTHOLED PRIOR TO CONSTRUCTION.

*** CALL BEFORE YOU DIG ***

**CONTACT UNDERGROUND SERVICE ALERT
1-800-857-8888
PRIOR TO ANY CONSTRUCTION WORK**

GENERAL NOTES

BIJOU CREEK CULVERT REPLACEMENT PROJECT

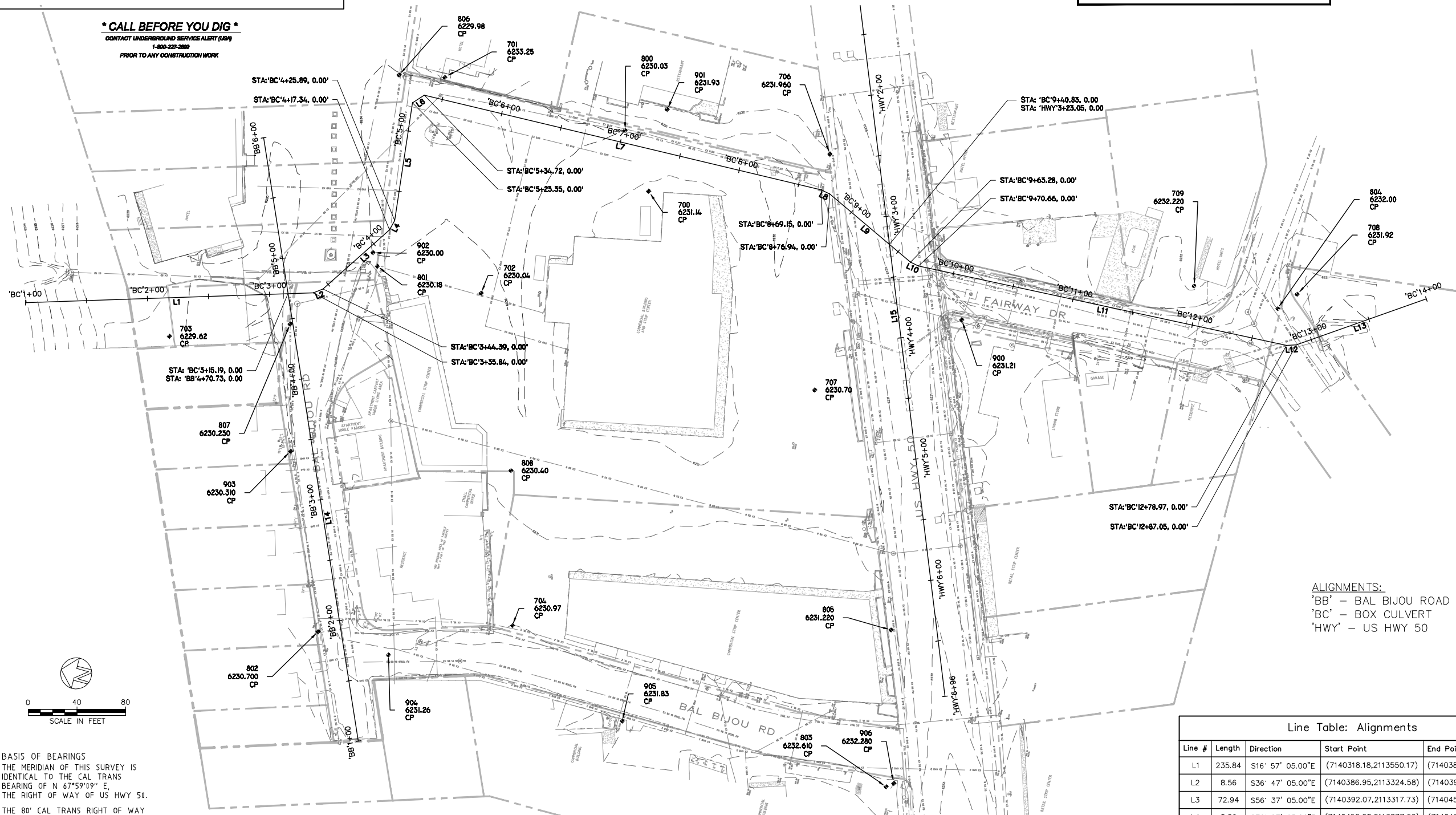
DESIGNED / DRAWN
SPFW/JD - JDBRML
CHECKED
SP
DATE
12/17/10
SCALE
AS SHOWN
CARDNO ENTREX JOB NO.
31141040.00
FIGURE NO.

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Cardno
ENTRIX
1046 SKI RUN BLVD.
SOUTH LAKE TAHOE, CA 96150
(530) 542-0201

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1-800-227-2800
PRIOR TO ANY CONSTRUCTION WORK



ALIGNMENTS:
'BB' - BAL BIJOU ROAD
'BC' - BOX CULVERT
'HWY' - US HWY 50

BASIS OF BEARINGS
THE MERIDIAN OF THIS SURVEY IS IDENTICAL TO THE CAL TRANS BEARING OF N 67°59'19\"

THE 80' CAL TRANS RIGHT OF WAY SHOWN HEREON WAS DERIVED USING APPRAISAL MAP NO. A-43601-7, BASED ON CAL TRANS MONUMENTS ED50 78.72 AND ED50 79.12.

WHERE IN CONFLICT, PRIVATE PROPERTY LINES HAVE BEEN SHORTENED OR LENGTHENED TO TERMINATE AT CAL TRANS RIGHT OF WAY.

THIS DRAWING REPRESENTS GROUND MEASUREMENTS, AND NO SCALE FACTOR HAS BEEN APPLIED. THE COORDINATE BASE IS FIXED IN CAL. ZONE 2 STATE PLANE AT N=2112579.792 E=7139662.989, CAL TRANS MONUMENT ED50 78.72.

BENCH MARK
CAL TRANS MONUMENT ED50 78.72, A BRASS DISC HAVING AN ELEVATION OF 6242.20, NAD 29.

SEE BENCH MARK NOTE

Point Table				
Point #	Elevation	Northing	Easting	Description
700	6231.14	2113080.75	7140538.29	CP
701	6233.25	2113266.19	7140585.23	CP
702	6230.04	2113191.74	7140422.20	CP
703	6229.62	2113429.18	7140322.04	CP
704	6230.97	2113096.54	7140166.29	CP
* 705	0.00	2112579.79	7139662.91	CP DNC
706	6231.96	2112945.24	7140606.09	CP
707	6230.70	2112907.27	7140416.47	CP
708	6231.92	2112545.87	7140594.34	CP

Point Table				
Point #	Elevation	Northing	Easting	Description
709	6232.22	2112629.26	7140579.15	CP
800	6230.03	2113112.31	7140581.32	CP
801	6230.18	2113279.57	7140421.59	CP
802	6230.70	2113248.96	7140120.16	CP
803	6232.61	2112766.82	7140117.97	CP
804	6232.00	2112558.34	7140578.91	CP
805	6231.22	2112796.09	7140242.94	CP
806	6229.98	2113302.91	7140577.36	CP
807	6230.23	2113336.29	7140357.38	CP

Point Table				
Point #	Elevation	Northing	Easting	Description
808	6230.40	2113130.49	7140288.32	CP
900	6231.21	2112805.97	7140503.04	CP
901	6231.93	2113083.39	7140607.02	CP
902	6230.00	2113285.90	7140431.33	CP
903	6230.31	2113308.94	7140256.96	CP
904	6231.26	2113188.47	7140116.66	CP
905	6231.83	2112989.47	7140113.89	CP
906	6232.28	2112761.48	7140122.14	CP

Line Table: Alignments

Line #	Length	Direction	Start Point	End Point
L1	235.84	S16° 57' 05.00\"E	(7140318.18,2113550.17)	(7140386.95,2113324.58)
L2	8.56	S36° 47' 05.00\"E	(7140386.95,2113324.58)	(7140392.07,2113317.73)
L3	72.94	S56° 37' 05.00\"E	(7140392.07,2113317.73)	(7140452.98,2113277.59)
L4	8.56	S76° 27' 05.00\"E	(7140452.98,2113277.59)	(7140461.30,2113275.59)
L5	97.45	N83° 42' 55.00\"E	(7140461.30,2113275.59)	(7140558.17,2113286.26)
L6	11.37	S48° 56' 35.00\"E	(7140558.17,2113286.26)	(7140566.74,2113278.79)
L7	334.42	S1° 36' 05.00\"E	(7140566.74,2113278.79)	(7140576.09,2112944.49)
L8	7.79	S11° 45' 42.56\"W	(7140576.09,2112944.49)	(7140574.50,2112936.87)
L9	86.34	S25° 07' 30.15\"W	(7140574.50,2112936.87)	(7140537.84,2112858.70)
L10	7.39	S11° 08' 57.58\"W	(7140537.84,2112858.70)	(7140536.41,2112851.45)
L11	308.30	S2° 49' 35.00\"E	(7140536.41,2112851.45)	(7140551.61,2112543.52)
L12	8.09	S18° 38' 40.64\"E	(7140551.61,2112543.52)	(7140554.20,2112535.86)
L13	112.95	S34° 27' 46.28\"E	(7140554.20,2112535.86)	(7140618.11,2112442.73)
L14	500.00	N66° 03' 55.00\"E	(7140042.07,2113193.93)	(7140499.08,2113396.78)
L15	595.76	S67° 59' 09.00\"W	(7140754.16,2112962.62)	(7140201.83,2112739.31)



CITY OF SOUTH LAKE TAHOE
DEPARTMENT OF PUBLIC WORKS
1082 TATA LANE
SOUTH LAKE TAHOE, CA 96150
STAN B. HILL - CITY ENGINEERING MANAGER
PH: (530) 542-0000 FAX: (530) 541-3051

BIJOU CREEK CULVERT REPLACEMENT PROJECT
SURVEY CONTROL
SOUTH LAKE TAHOE, CALIFORNIA

DESIGNED/DRAWN
SP/PPW JDS/SEL
CHECKED
SP
DATE
12/17/10
SCALE
AS SHOWN
JOB NO.
31141040.00
FIGURE NO.

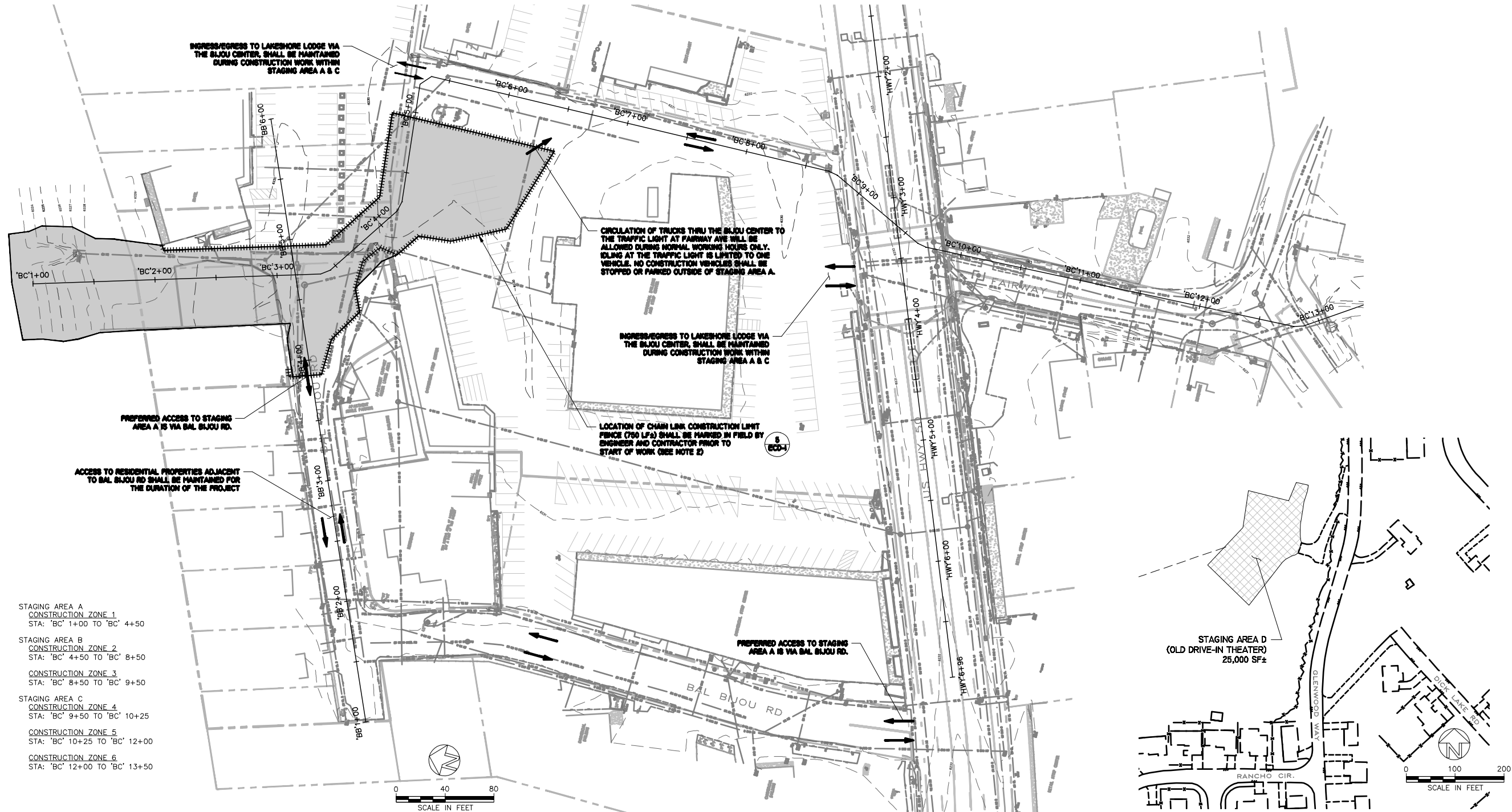
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CAUTION! ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE AND NEED TO BE POTHOLED PRIOR TO CONSTRUCTION.

*** CALL BEFORE YOU DIG ***
CONTACT UNDERGROUND SERVICE ALERT (USA)
1-800-227-2800
PRIOR TO ANY CONSTRUCTION WORK

**90% DRAFT
NOT FOR
CONSTRUCTION**

**Cardno
ENTRIX**
1048 SKI RUN BLVD.
SOUTH LAKE TAHOE, CA 96150
(530) 542-0201



- NOTES:
1. THE STAGING AREA AS SHOWN ON THIS PLAN SHEET INDICATES THE MAXIMUM USABLE SPACE THAT IS AVAILABLE TO THE CONTRACTOR OUTSIDE OF THE CITY R-O-W.
 2. TEMPORARY CHAIN LINK FENCING IS REQUIRED TO BE SET-UP BY THE CONTRACTOR, AROUND STAGING AREAS AND CONSTRUCTION AREAS WITHIN THE LAKESHORE LODGE AND BIJOU CENTER PROPERTIES FOR CONTROL OF ACCESS AND PUBLIC SAFETY. THE DESIGNATION OF ACCESS POINTS AND USE OF GATES IS AT THE DISCRETION OF THE CONTRACTOR. FENCING SHALL BE IN ACCORDANCE WITH THE STANDARD PLANS, SPECIFICATIONS, AND SPECIAL PROVISIONS.
 3. THE CONTRACTOR SHALL PROVIDE A CONSTRUCTION LIMIT FENCING PLAN AND WORK SCHEDULE TO THE ENGINEER FOR ANY MAJOR DEVIATIONS TO THIS PLAN SHEET AS SHOWN.
 4. PLACEMENT OF ADDITIONAL CONSTRUCTION LIMIT FENCING MAY BE NECESSARY ON A LIMITED BASIS, FOR THE WORK REQUIRED TO COMPLETE THE UTILITY RELOCATIONS AND REMOVAL OF THE EXISTING STORM DRAINAGE SYSTEM SHOWN ELSEWHERE IN THESE PLANS.
 5. SEE THE TRAFFIC CONTROL AND TEMPORARY EROSION CONTROL PLAN SHEETS (TC, EC) FOR ADDITIONAL REQUIREMENTS.

STAGING AREA A
USE IS LIMITED TO TIME OF CONSTRUCTION FOR BOX CULVERT FROM STA: 'BC' 1+00 TO 'BC' 4+50; AND SHALL BE RESTORED TO ORIGINAL PRE-CONSTRUCTION CONDITION, INCLUDING ANY ADDITIONAL IMPROVEMENTS AS SHOWN ON THE PLANS. CONTRACTOR SHALL NOT PROCEED TO STAGING AREA B WITHOUT PRIOR APPROVAL OF THE ENGINEER AND COMPLETION OF ALL WORK WITHIN CONSTRUCTION ZONE 1.

CA STATE LANDS:
LAKESHORE LODGE(27-020-17):
LAKEVIEW LODGING, LLC(27-371-15):
BAL BIYOU RD R-O-W:
BIJOU CENTER(27-020-15):
TOTAL SIZE: 33,000 SF±

*** NOTE ***
THIS PLAN SHEET IS DIAGRAMMATIC ONLY. ALL CONSTRUCTION LIMIT FENCING IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MODIFIED AS NECESSARY PER PROGRESSION OF THE WORK TO REFLECT EACH DAILY ACTIVE WORKING AREA; TO PROTECT PUBLIC SAFETY AND MAINTAIN EMERGENCY, BUSINESS, AND PRIVATE RESIDENTIAL ACCESS, FOR THE DURATION OF THE PROJECT.

CITY OF SOUTH LAKE TAHOE
DEPARTMENT OF PUBLIC WORKS
1082 TATA LANE
SOUTH LAKE TAHOE, CA 96150
STAN B. HILL - CITY ENGINEERING MANAGER
PH: (530) 542-0000 FAX: (530) 541-3061

**BIJOU CREEK CULVERT REPLACEMENT PROJECT
STAGING AND STORAGE PLAN - 1**
SOUTH LAKE TAHOE, CALIFORNIA

DESIGNED/DRAWN
SP/PW JD/SSEL
CHECKED
SP
DATE
12/17/80
SCALE
AS SHOWN
JOB NO.
31141040.00
FIGURE NO.

ST-1

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1048 SKI RUN BLVD.
SOUTH LAKE TAHOE, CA 96150
(530) 542-0201



CITY OF SOUTH LAKE TAHOE
DEPARTMENT OF PUBLIC WORKS
1002 TATA LANE
SOUTH LAKE TAHOE, CA 96150
STAN B. HILL - CITY ENGINEERING MANAGER
PH: (530) 542-0000 FAX: (530) 541-3061

BIJOU CREEK CULVERT REPLACEMENT PROJECT
STAGING AND STORAGE PLAN - 2

SOUTH LAKE TAHOE, CALIFORNIA

DESIGNED/DRAWN
SP/PW JD/SBEL
CHECKED
SP
DATE
12/17/10
SCALE
AS SHOWN
JOB NO.
31141040.00
FIGURE NO.

ST-2

5 OF 35



NOTES:

1. THE STAGING AREA AS SHOWN ON THIS PLAN SHEET INDICATES THE MAXIMUM USABLE SPACE THAT IS AVAILABLE TO THE CONTRACTOR OUTSIDE OF THE CITY R-O-W.
2. TEMPORARY CHAIN LINK FENCING IS REQUIRED TO BE SET-UP BY THE CONTRACTOR, AROUND STAGING AREAS AND CONSTRUCTION AREAS WITHIN THE LAKESHORE LODGE AND BIJOU CENTER PROPERTIES FOR CONTROL OF ACCESS AND PUBLIC SAFETY. THE DESIGNATION OF ACCESS POINTS AND USE OF GATES IS AT THE DISCRETION OF THE CONTRACTOR. FENCING SHALL BE IN ACCORDANCE WITH THE STANDARD PLANS, SPECIFICATIONS, AND SPECIAL PROVISIONS.
3. THE CONTRACTOR SHALL PROVIDE A CONSTRUCTION LIMIT FENCING PLAN AND WORK SCHEDULE TO THE ENGINEER FOR ANY MAJOR DEVIATIONS TO THIS PLAN SHEET AS SHOWN.
4. PLACEMENT OF ADDITIONAL CONSTRUCTION LIMIT FENCING MAY BE NECESSARY ON A LIMITED BASIS, FOR THE WORK REQUIRED TO COMPLETE THE UTILITY RELOCATIONS AND REMOVAL OF THE EXISTING STORM DRAINAGE SYSTEM SHOWN ELSEWHERE IN THESE PLANS.
5. SEE THE TRAFFIC CONTROL AND TEMPORARY EROSION CONTROL PLAN SHEETS (TC, EC) FOR ADDITIONAL REQUIREMENTS.

STAGING AREA B

USE IS LIMITED TO TIME OF CONSTRUCTION FOR BOX CULVERT FROM STA: 'BC' 4+50 TO 'BC' 9+50; AND SHALL BE RESTORED TO ORIGINAL PRE-CONSTRUCTION CONDITION, INCLUDING ANY ADDITIONAL IMPROVEMENTS AS SHOWN ON THE PLANS. CONTRACTOR SHALL NOT PROCEED TO STAGING AREA C WITHOUT PRIOR APPROVAL OF THE ENGINEER AND COMPLETION OF ALL WORK WITHIN CONSTRUCTION ZONE 2 & 3.

LAKESHORE LODGE(27-020-17):
BIJOU CENTER(27-020-15):
TOTAL SIZE: 30,238 SF±

STAGING AREA C

USE IS LIMITED TO TIME OF CONSTRUCTION FOR BOX CULVERT FROM STA: 'BC' 9+50 TO 'BC' 13+50; AND SHALL BE RESTORED TO ORIGINAL PRE-CONSTRUCTION CONDITION, INCLUDING ANY ADDITIONAL IMPROVEMENTS AS SHOWN ON THE PLANS.

BEVERLY LODGE(27-350-24):
FAIRWAY DR. R-O-W:
TOTAL SIZE: 12,947 SF±

* NOTE *

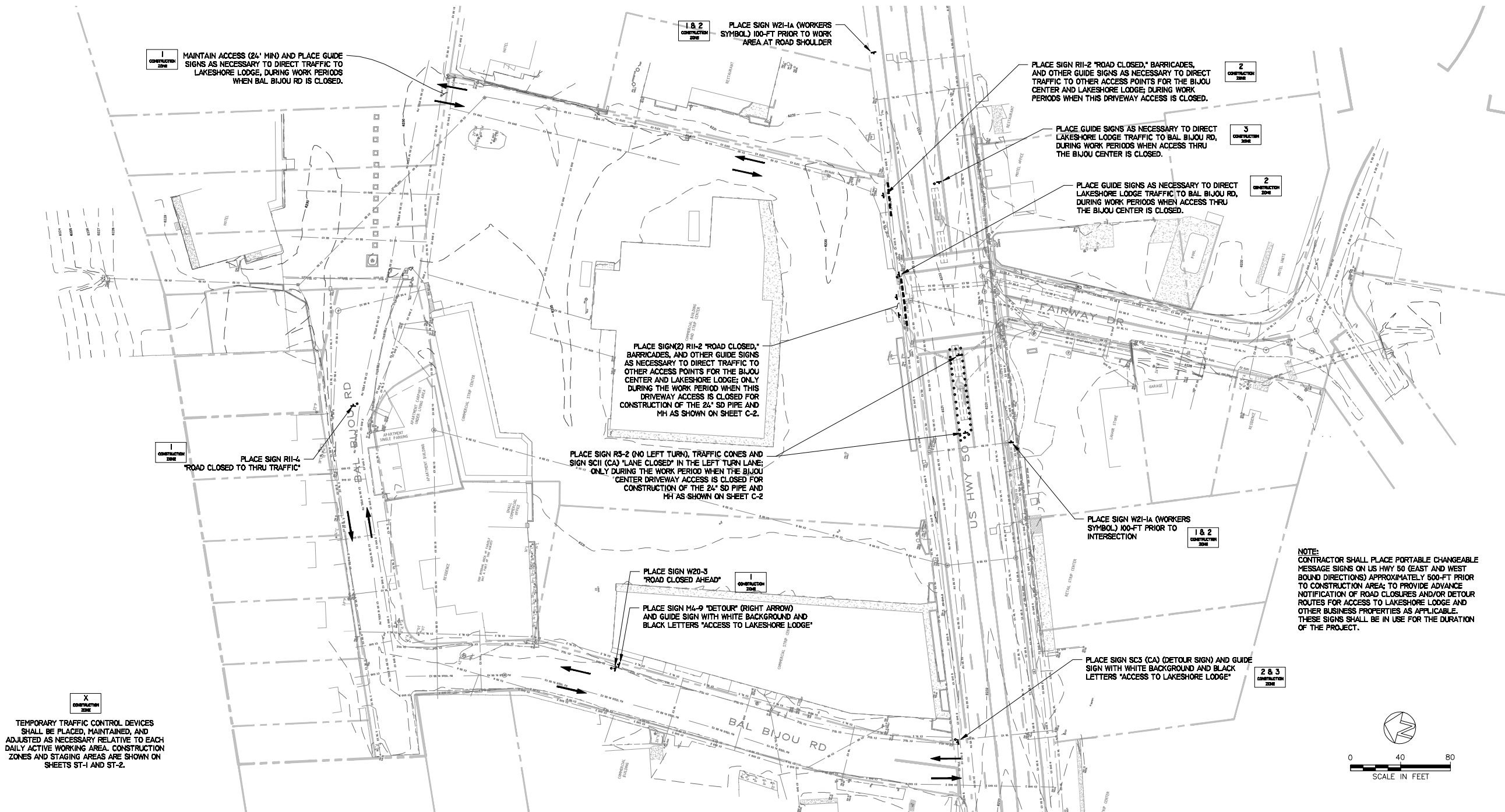
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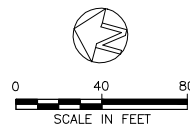
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1046 SKI RUN BLVD.
SOUTH LAKE TAHOE, CA 96150
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NOTE:
CONTRACTOR SHALL PLACE PORTABLE CHANGEABLE MESSAGE SIGNS ON US HWY 50 (EAST AND WEST BOUND DIRECTIONS) APPROXIMATELY 500-FT PRIOR TO CONSTRUCTION AREA; TO PROVIDE ADVANCE NOTIFICATION OF ROAD CLOSURES AND/OR DETOUR ROUTES FOR ACCESS TO LAKESHORE LODGE AND OTHER BUSINESS PROPERTIES AS APPLICABLE. THESE SIGNS SHALL BE IN USE FOR THE DURATION OF THE PROJECT.



- LEGEND FOR TTC DEVICES**
- WORK ZONE AREA (TYP)
 - CHAIN LINK CONSTRUCTION LIMIT FENCE
 - CONSTRUCTION LIMIT FENCE
 - CHANNELIZING DEVICES (CONE OR DRUM)
 - TEMPORARY TRAFFIC CONTROL SIGN
 - PORTABLE FLASHING BEACON
 - FAS SUPPORT OR TRAILER
 - DIRECTION OF TRAVEL
 - TYPE I OR II BARRICADE

NOTES:

- THE TEMPORARY TRAFFIC CONTROL (TTC) PLAN SHEETS ARE RELATIVE TO THE BOX CULVERT WORK ONLY. THE CONTRACTOR SHALL SUBMIT A TTC PLAN FOR THE WORK REQUIRED TO COMPLETE THE UTILITY RELOCATIONS SHOWN ELSEWHERE IN THESE PLANS.
- TTC PLANS SHALL FOLLOW CALTRANS STANDARD PLAN T12 AND T14 (entrance ramp without turning pockets) FOR SETUP OF TTC DEVICES WITHIN THE CALTRANS R-O-W. THIS PLAN SHEET ILLUSTRATES APPROXIMATE LOCATIONS AND LAYOUT ONLY. DISTANCES AND SIGNAGE SHALL BE PER CALTRANS STANDARD PLAN T12 AND T14. TTC PLANS SHALL FOLLOW CALTRANS STANDARD PLAN T11 FOR ANY SINGLE LANE CLOSURES REQUIRED WITHIN THE CALTRANS R-O-W.
- DURING ALL TIMES OF ROAD WORK AND LANE CLOSURES THE CONTRACTOR SHALL ASSURE "SAFE" PEDESTRIAN AND BICYCLE ACCESS THROUGH THE WORK ZONE.
- CONSTRUCTION HOURS SHALL BE WEEKDAYS BETWEEN 8:00 A.M. AND 6:30 P.M. UNLESS PRIOR APPROVAL IS RECEIVED FROM THE CITY OF SOUTH LAKE TAHOE.
- CONSTRUCTION HOURS FOR ANY WORK IN THE CALTRANS R-O-W SHALL BE WEEKDAYS BETWEEN 8:00 P.M. AND 6:00 A.M. UNLESS PRIOR APPROVAL IS RECEIVED FROM THE CITY OF SOUTH LAKE TAHOE AND CALTRANS.
- ALL WORK IS TO BE ACCOMPLISHED WITHIN THE PUBLIC RIGHT-OF-WAY OR PRE-APPROVED DESIGNATED PRIVATE PROPERTY AREAS; AND SHALL COMPLY WITH ALL PERMIT REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE, PLACE, AND MAINTAIN ALL LIGHTS, SIGNS, BARRICADES, FLAG PERSONS, PILOT CAR, OR OTHER DEVICES NECESSARY TO CONTROL TRAFFIC THROUGH THE CONSTRUCTION AREA; AND FOR PUBLIC SAFETY IN ACCORDANCE WITH THESE PLANS, THE CITY OF SOUTH LAKE TAHOE PUBLIC IMPROVEMENT AND ENGINEERING STANDARDS, THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2003 EDITION AND MUTCD 2003 CALIFORNIA SUPPLEMENT.
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*** NOTE ***
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CITY OF SOUTH LAKE TAHOE
DEPARTMENT OF PUBLIC WORKS
1082 TATA LANE
SOUTH LAKE TAHOE, CA 96150
PH: (530) 542-0000 FAX: (530) 541-3061

BIJOU CREEK CULVERT REPLACEMENT PROJECT
TEMPORARY TRAFFIC CONTROL - 1
BAL BIJOU RD & BIJOU CENTER
SOUTH LAKE TAHOE, CALIFORNIA

DESIGNED/DRAWN
SP/PW JD/SB/EL
CHECKED
SP
DATE
12/17/10
SCALE
AS SHOWN
JOB NO.
31141040.00
FIGURE NO.

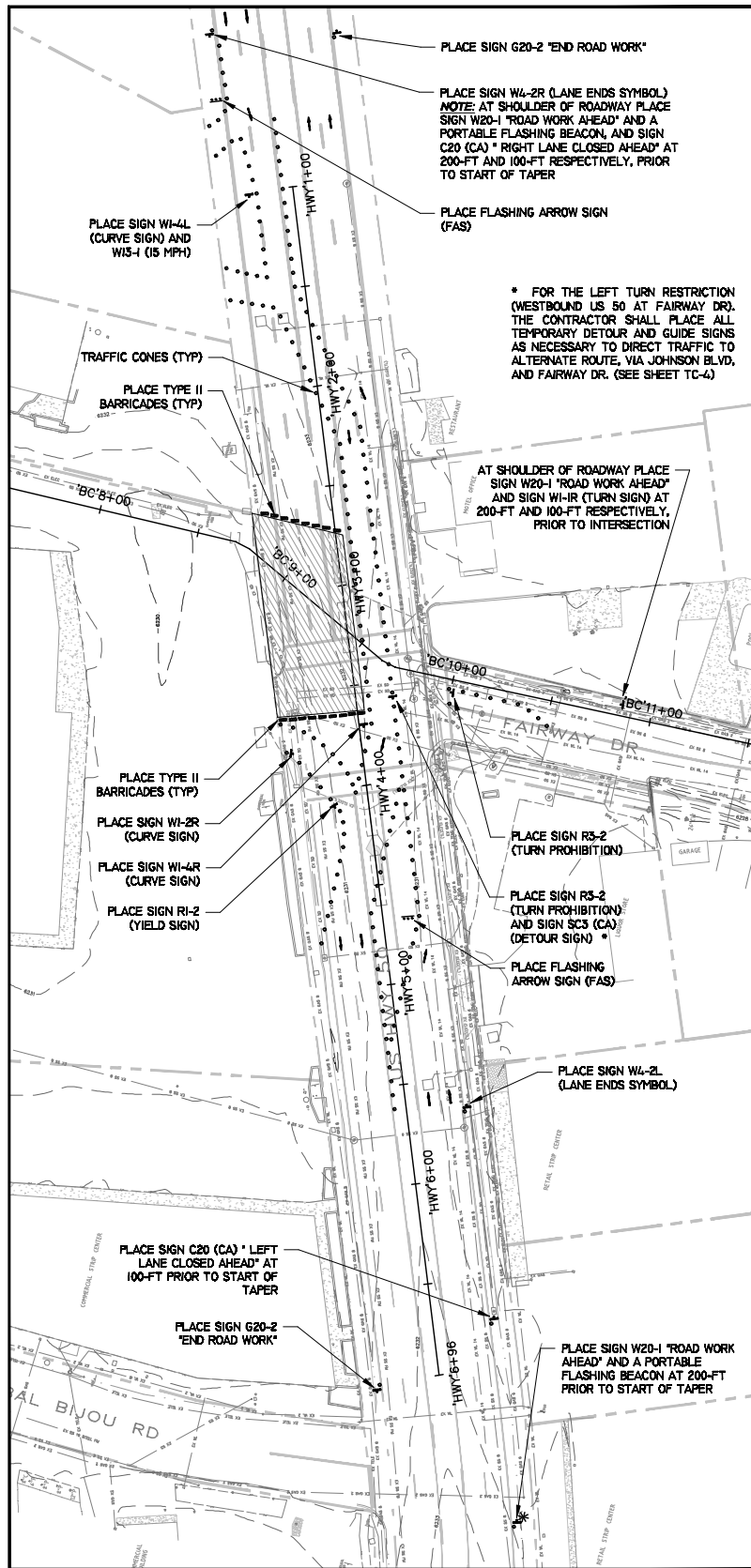
TC-1

CAUTION! ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE AND NEED TO BE POTHOLED PRIOR TO CONSTRUCTION.

*** CALL BEFORE YOU DIG ***
CONTACT UNDERGROUND SERVICE ALERT (USA)
1-800-227-2800
PRIOR TO ANY CONSTRUCTION WORK

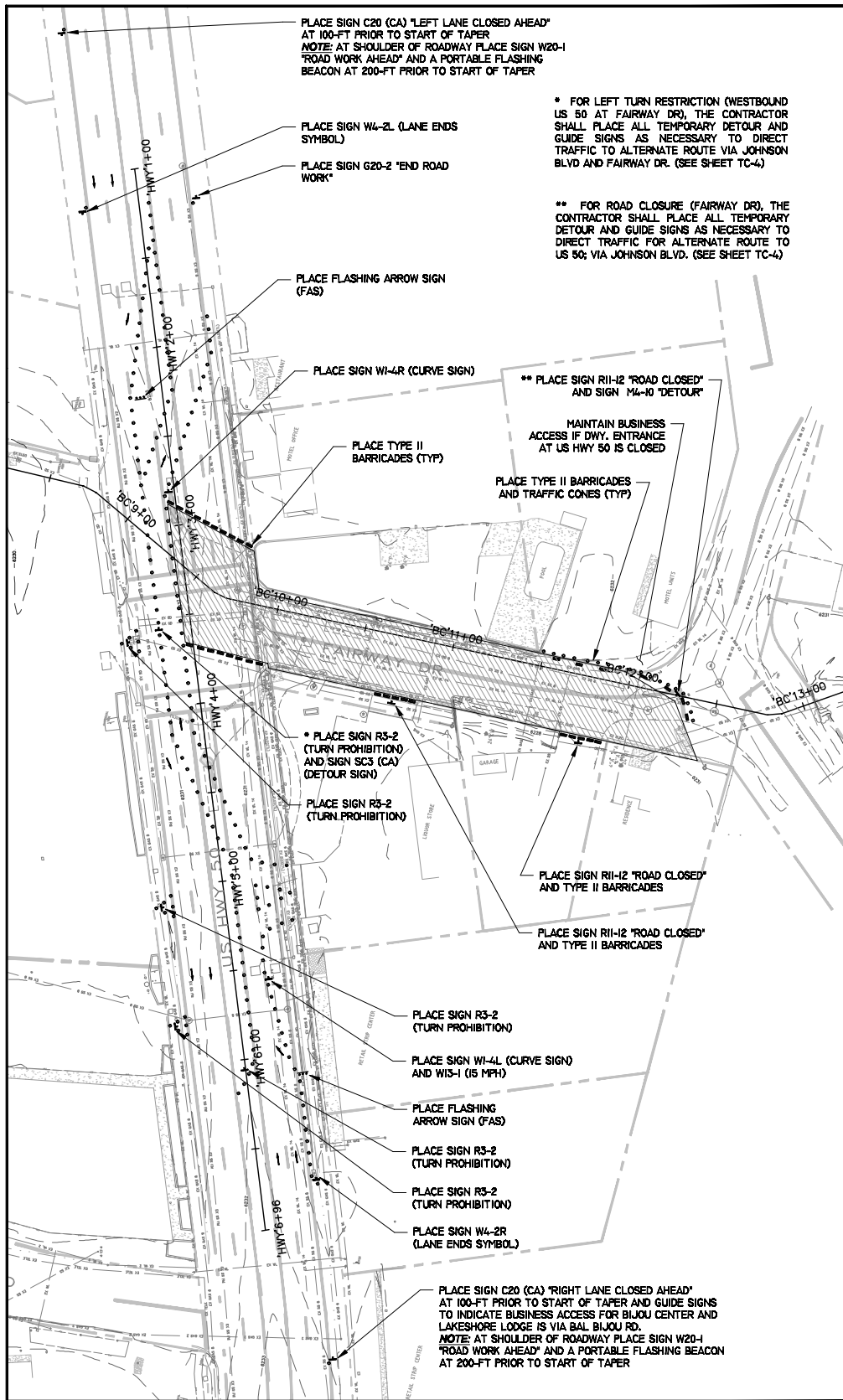
**90% DRAFT
NOT FOR
CONSTRUCTION**

**Cardno
ENTRIX**
1046 SKI RUN BLVD.
SOUTH LAKE TAHOE, CA 96150
(530) 542-0201



WESTBOUND US HWY 50 (TTC)

FOR WORK IN CONSTRUCTION ZONE 3

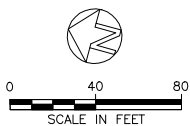


EASTBOUND US HWY 50 (TTC)

FOR WORK IN CONSTRUCTION ZONE 4

LEGEND FOR TTC DEVICES

- WORK ZONE AREA (TYP)
- CHAIN LINK CONSTRUCTION LIMIT FENCE
- CONSTRUCTION LIMIT FENCE
- CHANNELIZING DEVICES (CONE OR DRUM)
- TEMPORARY TRAFFIC CONTROL SIGN
- PORTABLE FLASHING BEACON
- FAS SUPPORT OR TRAILER
- DIRECTION OF TRAVEL
- TYPE I OR II BARRICADE



NOTES:

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CITY OF SOUTH LAKE TAHOE
DEPARTMENT OF PUBLIC WORKS
1082 TATA LANE
SOUTH LAKE TAHOE, CA 96150
STAN B. HILL - CITY ENGINEERING MANAGER
PH: (530) 542-0000 FAX: (530) 541-3061

**BIJOU CREEK CULVERT REPLACEMENT PROJECT
TEMPORARY TRAFFIC CONTROL - 2
US HWY 50
SOUTH LAKE TAHOE, CALIFORNIA**

DESIGNED/DRAWN
SP/PW JDS/SEL
CHECKED
SP
DATE
12/17/10
SCALE
AS SHOWN
JOB NO.
31141040.00
FIGURE NO.

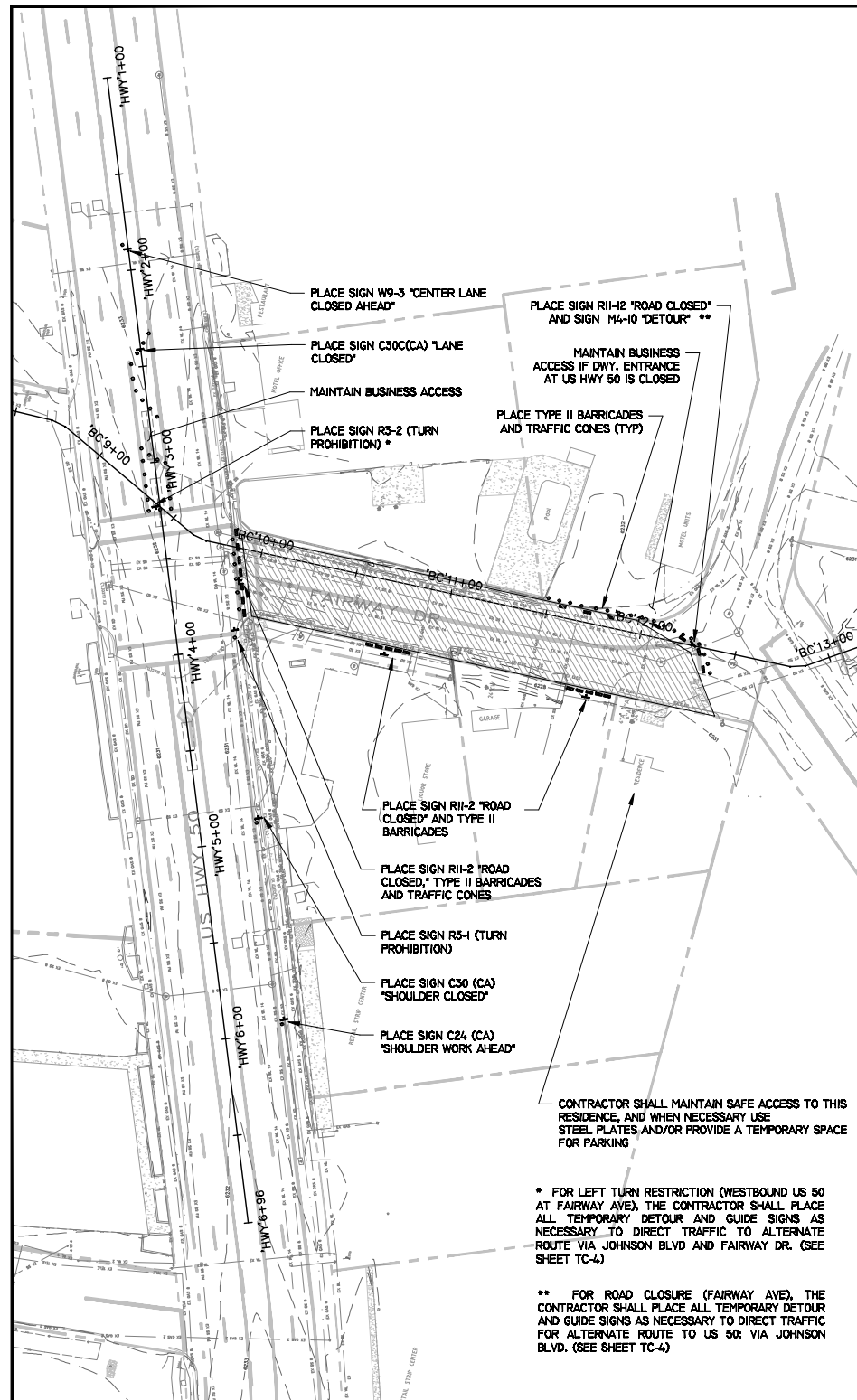
TC-2

CAUTION! ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE AND NEED TO BE POTHOLED PRIOR TO CONSTRUCTION.

*** CALL BEFORE YOU DIG ***
CONTACT UNDERGROUND SERVICE ALERT (USA)
1-800-227-2800
PRIOR TO ANY CONSTRUCTION WORK

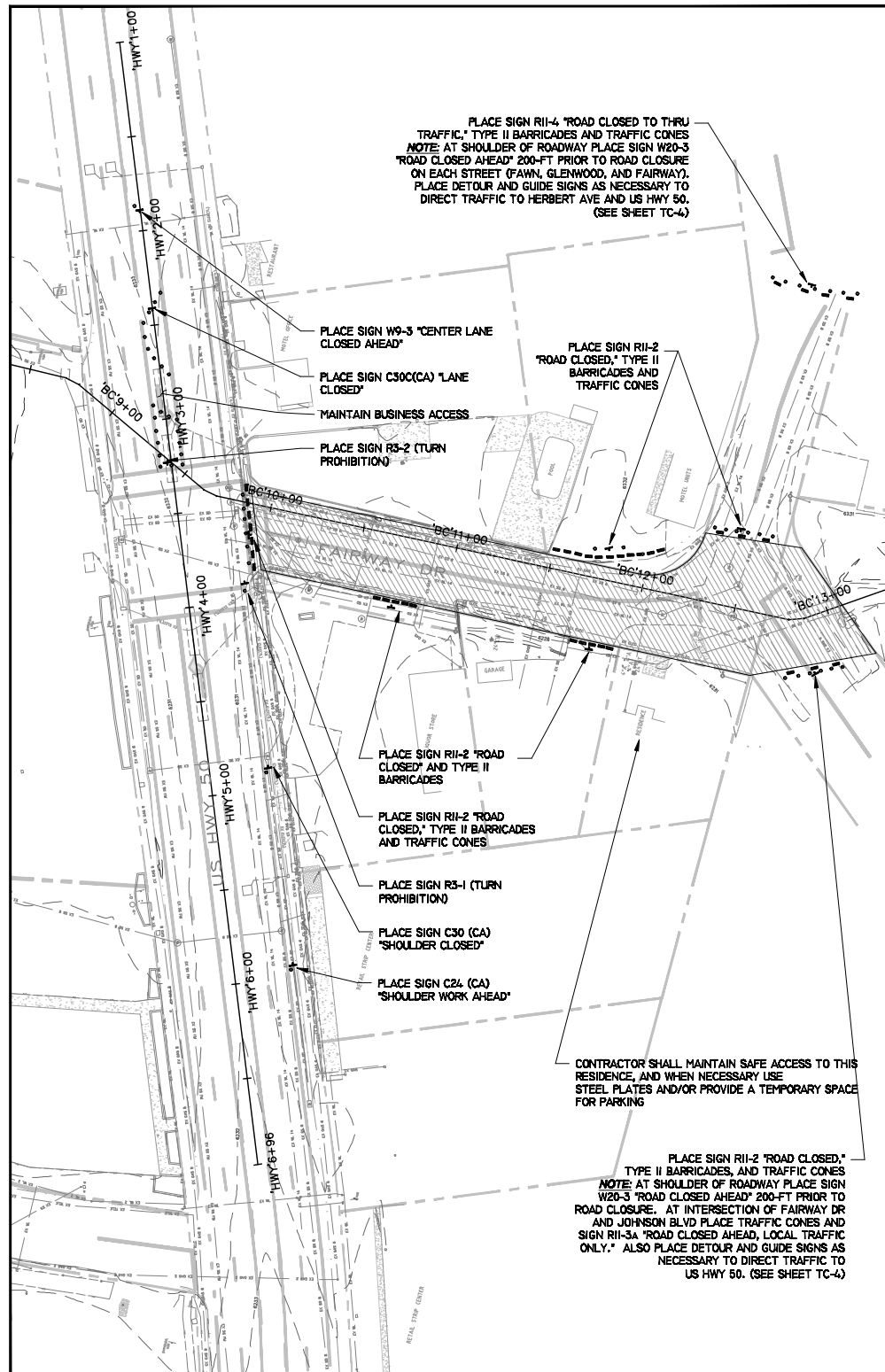
90% DRAFT
NOT FOR
CONSTRUCTION

Cardno
ENTRIX
1048 SKI RUN BLVD.
SOUTH LAKE TAHOE, CA 96150
(530) 542-0201



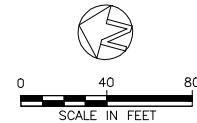
FAIRWAY DR (TTC) 1

FOR WORK IN CONSTRUCTION ZONE 5



FAIRWAY DR (TTC) 2

FOR WORK IN CONSTRUCTION ZONE 6



LEGEND FOR TTC DEVICES

- WORK ZONE AREA (TYP)
- CHAIN LINK CONSTRUCTION LIMIT FENCE
- CONSTRUCTION LIMIT FENCE
- CHANNELIZING DEVICES (CONE OR DRUM)
- TEMPORARY TRAFFIC CONTROL SIGN
- PORTABLE FLASHING BEACON
- FAS SUPPORT OR TRAILER
- DIRECTION OF TRAVEL
- TYPE I OR II BARRICADE

NOTES:

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CITY OF SOUTH LAKE TAHOE
DEPARTMENT OF PUBLIC WORKS
1082 TATA LANE
SOUTH LAKE TAHOE, CA 96150
PH: (530) 542-0000 FAX: (530) 541-3061

BIJOU CREEK CULVERT REPLACEMENT PROJECT
TEMPORARY TRAFFIC CONTROL - 3
FAIRWAY AVE
SOUTH LAKE TAHOE, CALIFORNIA

DESIGNED/DRAWN
SP/PW JDS/SEL
CHECKED
SP
DATE
12/17/10
SCALE
AS SHOWN
JOB NO.
31141040.00
FIGURE NO.

TC-3

CAUTION! ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE AND NEED TO BE POTHOLED PRIOR TO CONSTRUCTION.

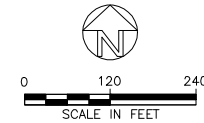
*** CALL BEFORE YOU DIG ***
CONTACT UNDERGROUND SERVICE ALERT (USA)
1-800-222-2800
PRIOR TO ANY CONSTRUCTION WORK

**90% DRAFT
NOT FOR
CONSTRUCTION**

**Cardno
ENTRIX**
1046 SKI RUN BLVD.
SOUTH LAKE TAHOE, CA 96150
(530) 542-0201

LEGEND FOR TTC DEVICES

- WORK ZONE AREA (TYP)
- CHAIN LINK CONSTRUCTION LIMIT FENCE
- CONSTRUCTION LIMIT FENCE
- CHANNELIZING DEVICES (CONE OR DRUM)
- TEMPORARY TRAFFIC CONTROL SIGN
- PORTABLE FLASHING BEACON
- FAS SUPPORT OR TRAILER
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CITY OF SOUTH LAKE TAHOE
DEPARTMENT OF PUBLIC WORKS
1082 TATA LANE
SOUTH LAKE TAHOE, CA 96150
STAN B. HILL - CITY ENGINEERING MANAGER
PH: (530) 542-0000 FAX: (530) 541-3061

**BIJOU CREEK CULVERT REPLACEMENT PROJECT
TEMPORARY TRAFFIC CONTROL - 4
DETOURS**
SOUTH LAKE TAHOE, CALIFORNIA

DESIGNED/DRAWN
SP/PW JD/SBEL
CHECKED
SP
DATE
12/17/10
SCALE
AS SHOWN
JOB NO.
31141040.00
FIGURE NO.

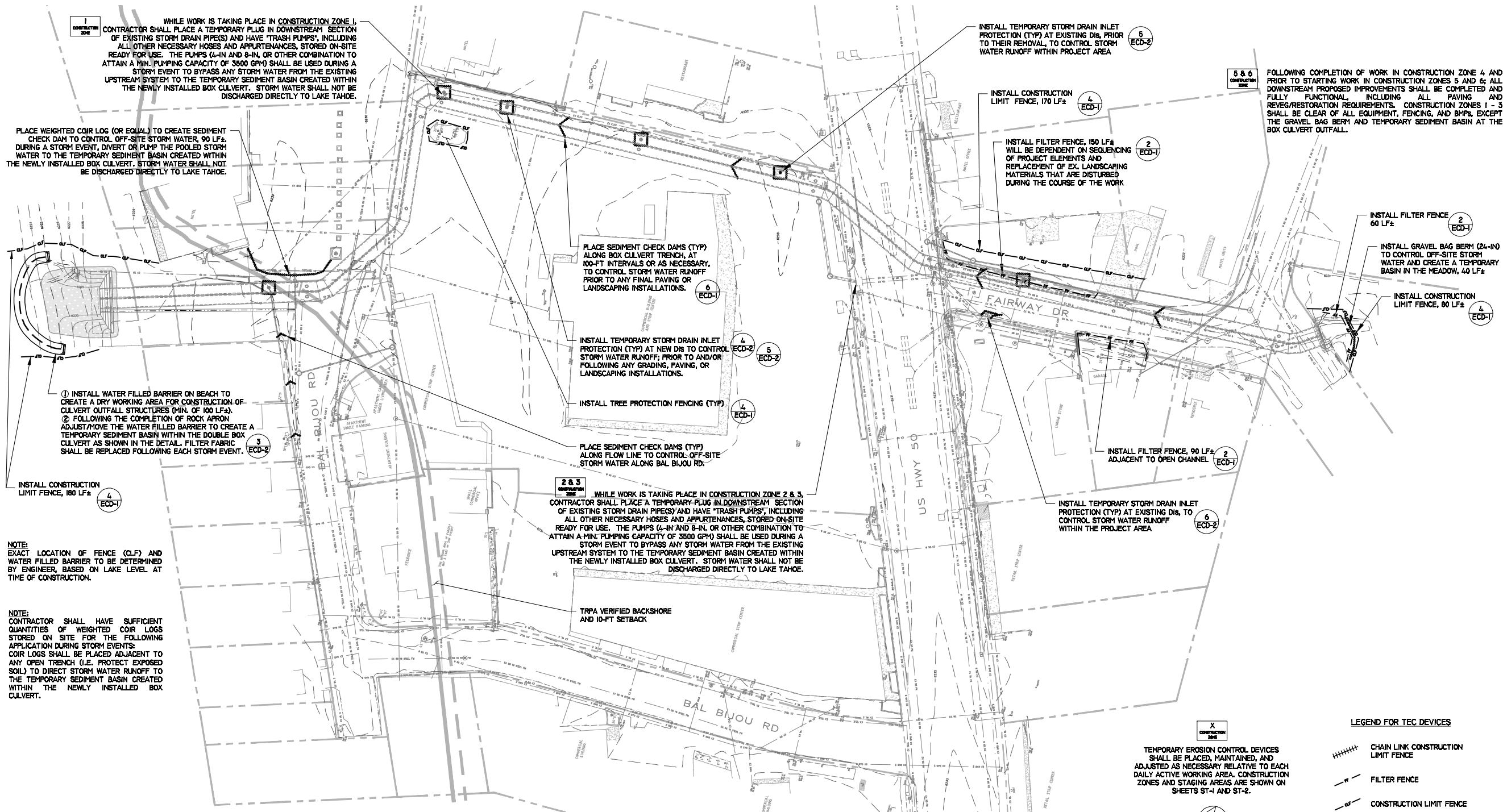
TC-4

CAUTION! ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE AND NEED TO BE POTHOLED PRIOR TO CONSTRUCTION.

*** CALL BEFORE YOU DIG ***
CONTACT UNDERGROUND SERVICE ALERT (USA)
1-800-227-2600
PRIOR TO ANY CONSTRUCTION WORK

90% DRAFT
NOT FOR
CONSTRUCTION

Cardno
ENTRIX
1048 SKI RUN BLVD.
SOUTH LAKE TAHOE, CA 96150
(530) 542-0201



NOTE:
EXACT LOCATION OF FENCE (CLF) AND WATER FILLED BARRIER TO BE DETERMINED BY ENGINEER, BASED ON LAKE LEVEL, AT TIME OF CONSTRUCTION.

NOTE:
CONTRACTOR SHALL HAVE SUFFICIENT QUANTITIES OF WEIGHTED COIR LOGS STORED ON SITE FOR THE FOLLOWING APPLICATION DURING STORM EVENTS: COIR LOGS SHALL BE PLACED ADJACENT TO ANY OPEN TRENCH (I.E. PROTECT EXPOSED SOIL) TO DIRECT STORM WATER RUNOFF TO THE TEMPORARY SEDIMENT BASIN CREATED WITHIN THE NEWLY INSTALLED BOX CULVERT.

- NOTES:
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ALL TEMPORARY EROSION CONTROL MEASURES. THE EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE TRPA "HANDBOOK OF BEST MANAGEMENT PRACTICES" AND THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE CITY SHALL CONTACT TRPA PRIOR TO THE COMMENCEMENT OF WORK FOR A PRE-GRADING INSPECTION OF THE INSTALLED TEMPORARY EROSION CONTROL FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND PERFORMANCE OF THE TEMPORARY EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE PROJECT. SEE SPECIAL PROVISIONS REGARDING TEMPORARY EROSION CONTROL FACILITY REMOVAL.
 2. ALL TRENCHES SHALL BE BACKFILLED OR COVERED WITH TRENCH PLATING BY THE END OF EACH WORK DAY. ALL PERMANENT (OR TEMPORARY) PAVEMENT REQUIRED WITHIN THE TRENCHING AREAS SHALL BE PLACED BY THE END OF EACH WORK DAY. SEE SPECIAL PROVISIONS FOR ADDITIONAL DETAILS AND REQUIREMENTS.
 3. THE CONTRACTOR IS REQUIRED TO PERFORM PREVENTIVE DUST CONTROL MEASURES IN ACCORDANCE WITH THE SPECIAL PROVISIONS, STANDARD SPECIFICATIONS, AND PERMIT REQUIREMENTS.
 4. CONSTRUCTION LIMITS SHOWN ON THE PLAN SHEETS DELINEATE BOUNDARIES FOR THE CONTRACTOR'S OPERATIONS; AND CONSTRUCTION LIMIT FENCING SHALL BE ERECTED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE USE OF CHAIN LINK FENCING AS SHOWN ON THE PLAN SHEETS IS MANDATORY.
 5. WITHIN THE CONSTRUCTION LIMITS, EXISTING VEGETATION SHALL BE PROTECTED TO THE EXTENT FEASIBLE. ALL EXISTING TREES SHALL BE PROTECTED UNLESS SHOWN ON THE PLANS TO BE REMOVED.
 6. ALL WORK IS TO BE ACCOMPLISHED WITHIN THE PUBLIC RIGHT-OF-WAY OR PRE-APPROVED DESIGNATED PRIVATE PROPERTY AREAS; AND SHALL COMPLY WITH ALL PERMIT REQUIREMENTS.
 7. THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF WORK FOR THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, AND FURTHER AGREES THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

TEMPORARY EROSION CONTROL DEVICES SHALL BE PLACED, MAINTAINED, AND ADJUSTED AS NECESSARY RELATIVE TO EACH DAILY ACTIVE WORKING AREA. CONSTRUCTION ZONES AND STAGING AREAS ARE SHOWN ON SHEETS ST-1 AND ST-2.

LEGEND FOR TEC DEVICES

- CHAIN LINK CONSTRUCTION LIMIT FENCE
- FILTER FENCE
- CONSTRUCTION LIMIT FENCE
- SEDIMENT CHECK DAM
- STORM DRAIN INLET PROTECTION

0 40 80
SCALE IN FEET

* NOTE *

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CITY OF SOUTH LAKE TAHOE
DEPARTMENT OF PUBLIC WORKS
1002 TATA LANE
SOUTH LAKE TAHOE, CA 96150
PH: (530) 542-0000 FAX: (530) 541-3001

BIJOU CREEK CULVERT REPLACEMENT PROJECT
TEMPORARY EROSION CONTROL

SOUTH LAKE TAHOE, CALIFORNIA

DESIGNED/DRAWN
SP/PW JD/SSEL
CHECKED
SP
DATE
12/17/10
SCALE
AS SHOWN
JOB NO.
31141040.00
FIGURE NO.

EC

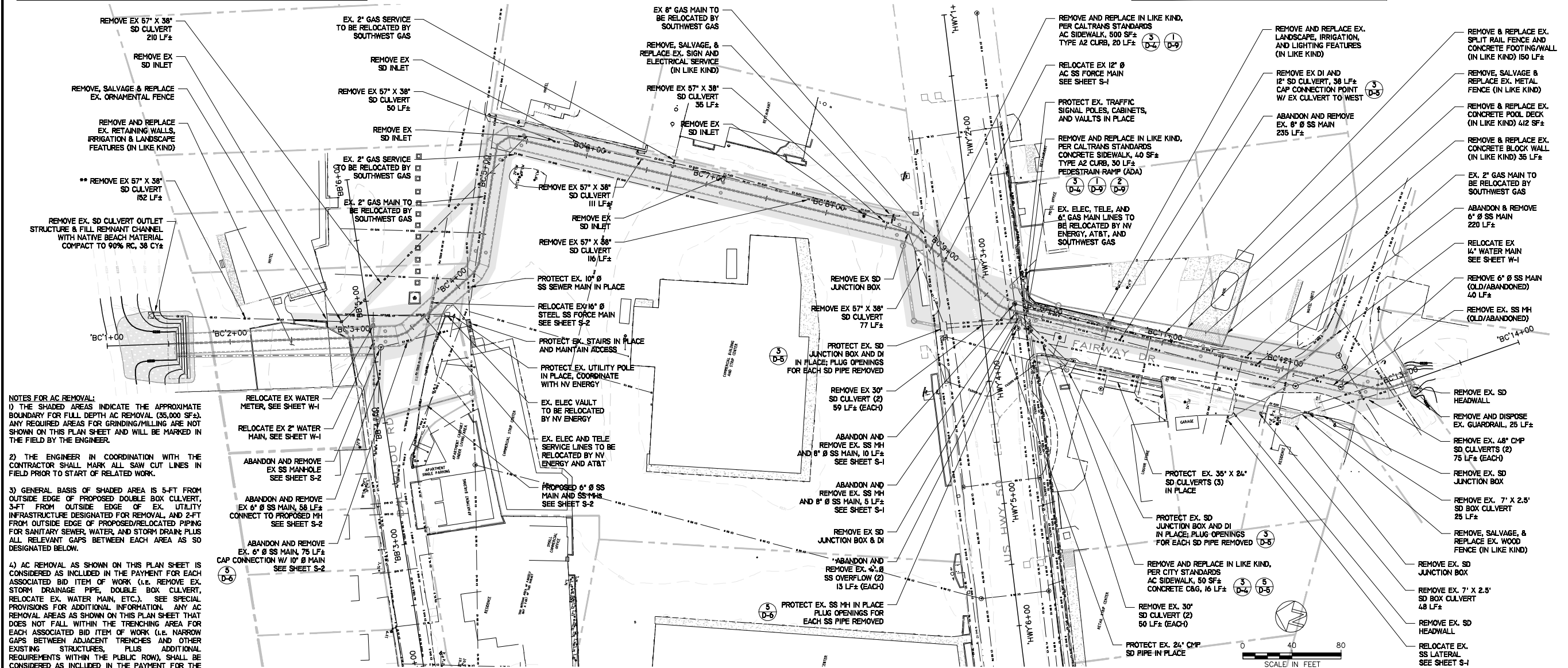
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*** CALL BEFORE YOU DIG ***
CONTACT UNDERGROUND SERVICE ALERT (USA)
1-800-227-2820
PRIOR TO ANY CONSTRUCTION WORK

**** SPECIAL NOTE:**
THE CONTRACTOR SHALL HAVE A LICENSED (CA) STRUCTURAL ENGINEER ON SITE DURING EXCAVATION AND REMOVAL OF THE EX 57" X 38" SD CULVERT SECTION THAT IS ADJACENT TO THE LAKESHORE LODGE BUILDING. IN THE OPINION OF THE STRUCTURAL ENGINEER, IF THERE IS POTENTIAL FOR DISTURBANCE TO THE FOUNDATION OR STRUCTURAL INTEGRITY OF THE BUILDING, THE ENGINEER SHALL PROVIDE DIRECTION TO THE CONTRACTOR FOR PROPER REMOVAL OF THE CULVERT OR ITS ABANDONMENT IN PLACE INCLUDING RECOMMENDATIONS FOR STRUCTURAL BACKFILL.

**90% DRAFT
NOT FOR
CONSTRUCTION**

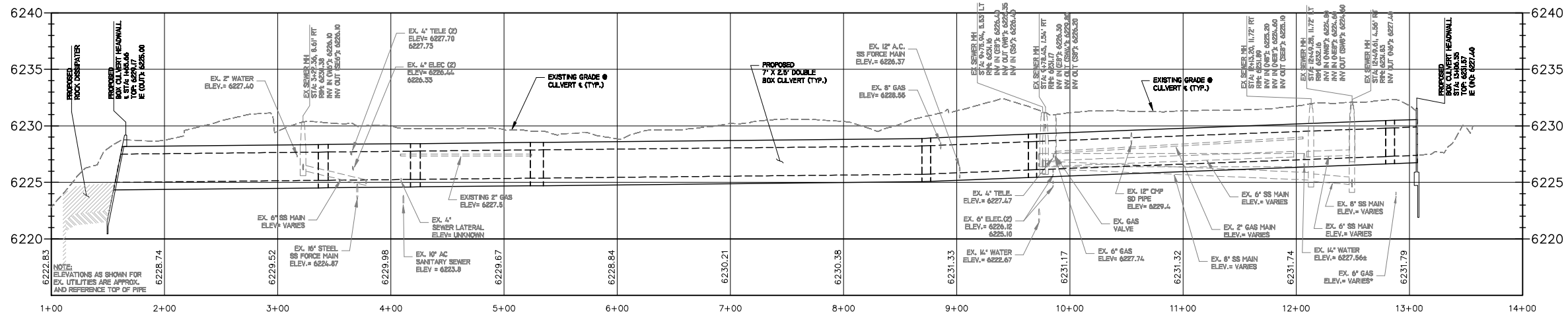
**Cardno
ENTRIX**
1048 SKI RUN BLVD.
SOUTH LAKE TAHOE, CA 96150
(530) 542-0201



PLAN VIEW

SCALE 1"=40'

NOTES FOR AC REMOVAL:
1) THE SHADED AREAS INDICATE THE APPROXIMATE BOUNDARY FOR FULL DEPTH AC REMOVAL (35,000 SF±). ANY REQUIRED AREAS FOR GRINDING/MILLING ARE NOT SHOWN ON THIS PLAN SHEET AND WILL BE MARKED IN THE FIELD BY THE ENGINEER.
2) THE ENGINEER IN COORDINATION WITH THE CONTRACTOR SHALL MARK ALL SAW CUT LINES IN FIELD PRIOR TO START OF RELATED WORK.
3) GENERAL BASIS OF SHADED AREA IS 5-FT FROM OUTSIDE EDGE OF PROPOSED DOUBLE BOX CULVERT, 3-FT FROM OUTSIDE EDGE OF EX. UTILITY INFRASTRUCTURE DESIGNATED FOR REMOVAL, AND 2-FT FROM OUTSIDE EDGE OF PROPOSED/RELOCATED PIPING FOR SANITARY SEWER, WATER, AND STORM DRAIN PLUS ALL RELEVANT GAPS BETWEEN EACH AREA AS SO DESIGNATED BELOW.
4) AC REMOVAL AS SHOWN ON THIS PLAN SHEET IS CONSIDERED AS INCLUDED IN THE PAYMENT FOR EACH ASSOCIATED BID ITEM OF WORK (I.E. REMOVE EX. STORM DRAINAGE PIPE, DOUBLE BOX CULVERT, RELOCATE EX. WATER MAIN, ETC.). SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION. ANY AC REMOVAL AREAS AS SHOWN ON THIS PLAN SHEET THAT DOES NOT FALL WITHIN THE TRENCHING AREA FOR EACH ASSOCIATED BID ITEM OF WORK (I.E. NARROW GAPS BETWEEN ADJACENT TRENCHES AND OTHER EXISTING STRUCTURES, PLUS ADDITIONAL REQUIREMENTS WITHIN THE PUBLIC ROW), SHALL BE CONSIDERED AS INCLUDED IN THE PAYMENT FOR THE DOUBLE BOX CULVERT BID ITEM.
5) SEE APPLICABLE TRENCH DETAILS AND SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.



DOUBLE BOX CULVERT ALIGNMENT

NOTE: PROFILE REFERENCES BOX CULVERT ALIGNMENT, SKEWED APPEARANCE MAY OCCUR

HORIZONTAL SCALE 1"=50'
VERTICAL SCALE 1"=5'

* EX. 6" GAS MAIN (FAIRWAY DR)
INFORMATION PROVIDED BY SWGS INDICATES A VERTICAL OFFSET (DROP) WAS CONSTRUCTED WITHIN THE VICINITY OF THE PROPOSED BOX CULVERT ALIGNMENT TO PROVIDE CLEARANCE FOR CONSTRUCTION OF CULVERT. CONTRACTOR SHALL POTHOLE FOR VERIFICATION.

**BIJOU CREEK CULVERT REPLACEMENT PROJECT
DEMOLITION PLAN**

SOUTH LAKE TAHOE, CALIFORNIA

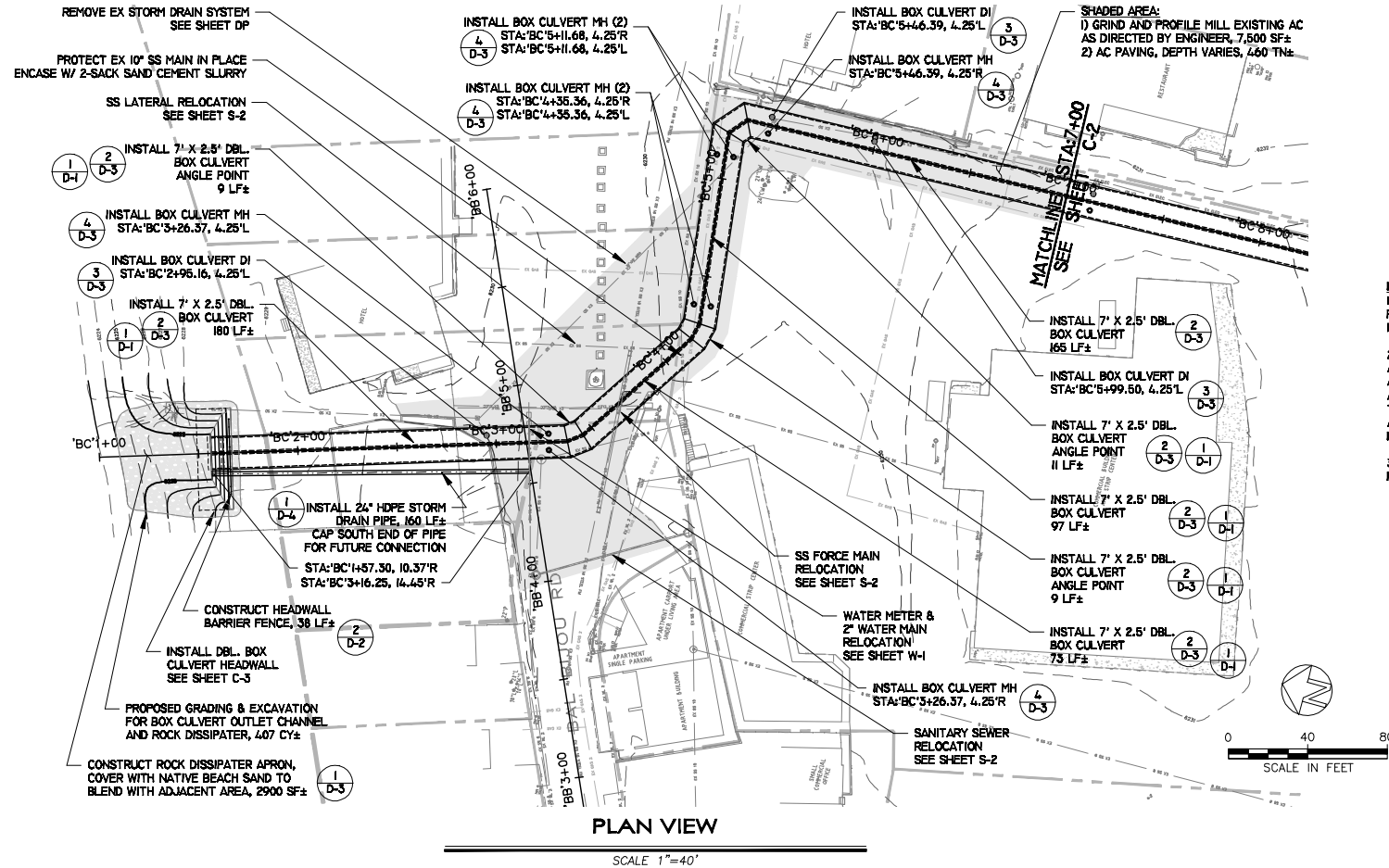
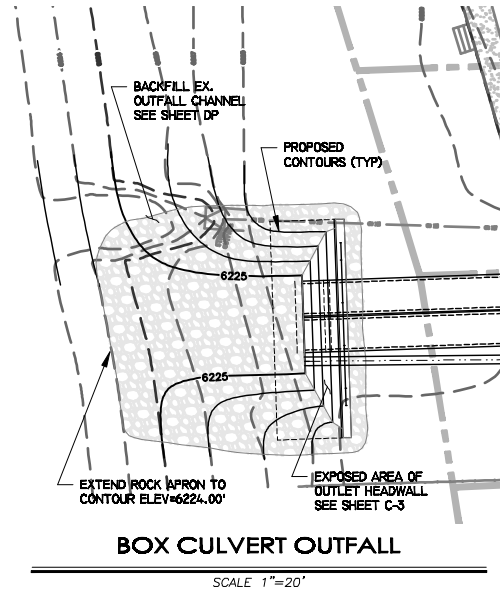
DESIGNED/DRAWN
SP/PW JDS/SEL
CHECKED
SP
DATE
12/17/10
SCALE
AS SHOWN
JOB NO.
31141040.00
FIGURE NO.

DP

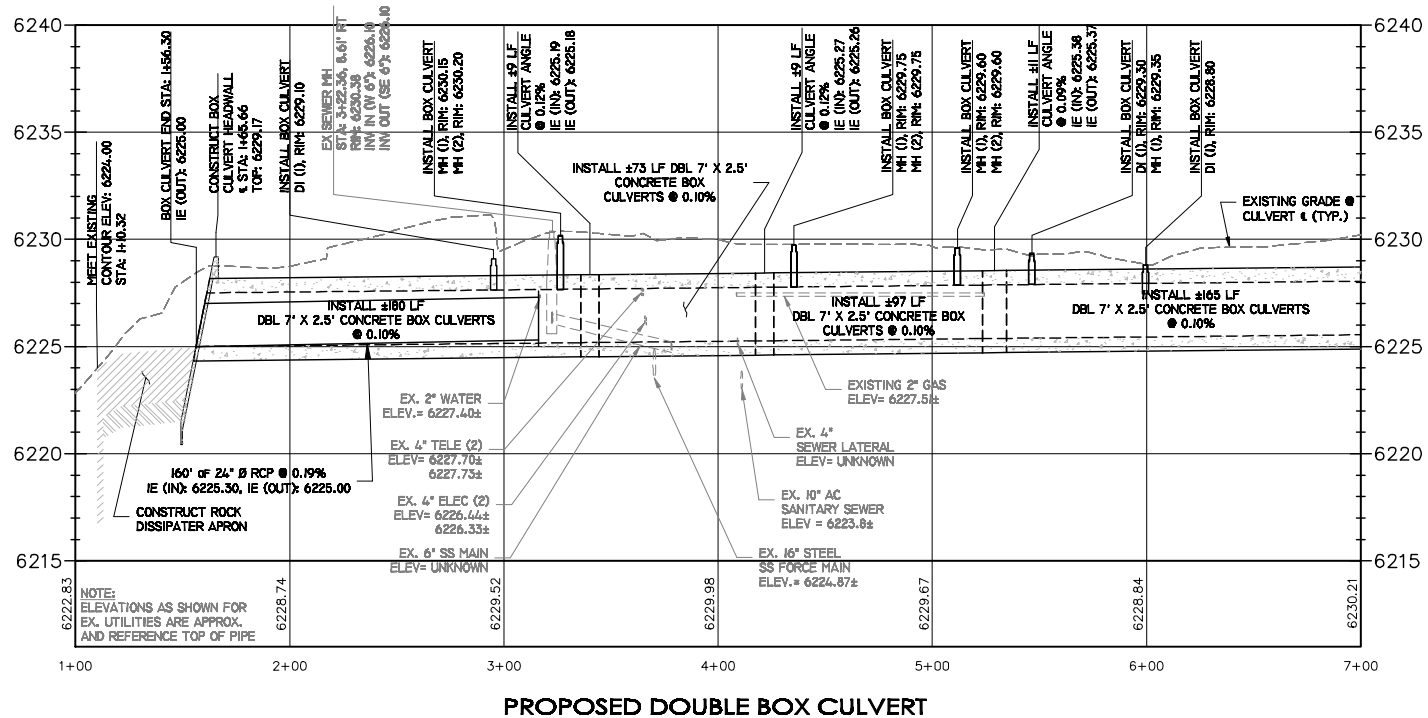
11 OF 35

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*** CALL BEFORE YOU DIG ***
CONTACT UNDERGROUND SERVICE ALERT (USA)
1-800-227-2800
PRIOR TO ANY CONSTRUCTION WORK



NOTES FOR FINAL AC PATCH/RESTORATION PAVING:
1) THE SHADED AREAS INDICATE THE APPROXIMATE BOUNDARY FOR FINAL AC PATCH/RESTORATION PAVING WORK (20,300 SF±), DEPTH VARIES. TOTAL INCLUDES ADDITIONAL GRINDING/MILLING AREAS.
2) THE ENGINEER IN COORDINATION WITH THE CONTRACTOR SHALL MARK ALL AREAS IN THE FIELD PRIOR TO START OF RELATED WORK, INCLUDING ANY AREAS THAT REQUIRE ADDITIONAL SAW-CUTS OR GRINDING/MILLING TO ALLOW FOR PROPER TIE-IN TO EXISTING (SEE TYPICAL TRENCH DETAILS FOR THE REQUIRED PATCH PAVING "T" CAP). NOTE THAT GRINDING/MILLING OF ADDITIONAL AREAS WITHIN THE CALTRANS AND CSLT ROW WILL BE NECESSARY TO COMPLETE THE FINAL AC PATCH/RESTORATION PAVING WORK.
3) SEE ALL APPLICABLE TRENCH DETAILS, SPECIAL PROVISIONS, AND PERMITS FOR ADDITIONAL INFORMATION.



1046 SKI RUN BLVD.
SOUTH LAKE TAHOE, CA 96150
(530) 542-0201

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STAN B. HILL - CITY ENGINEERING MANAGER
PH: (530) 542-0000 FAX: (530) 541-3001

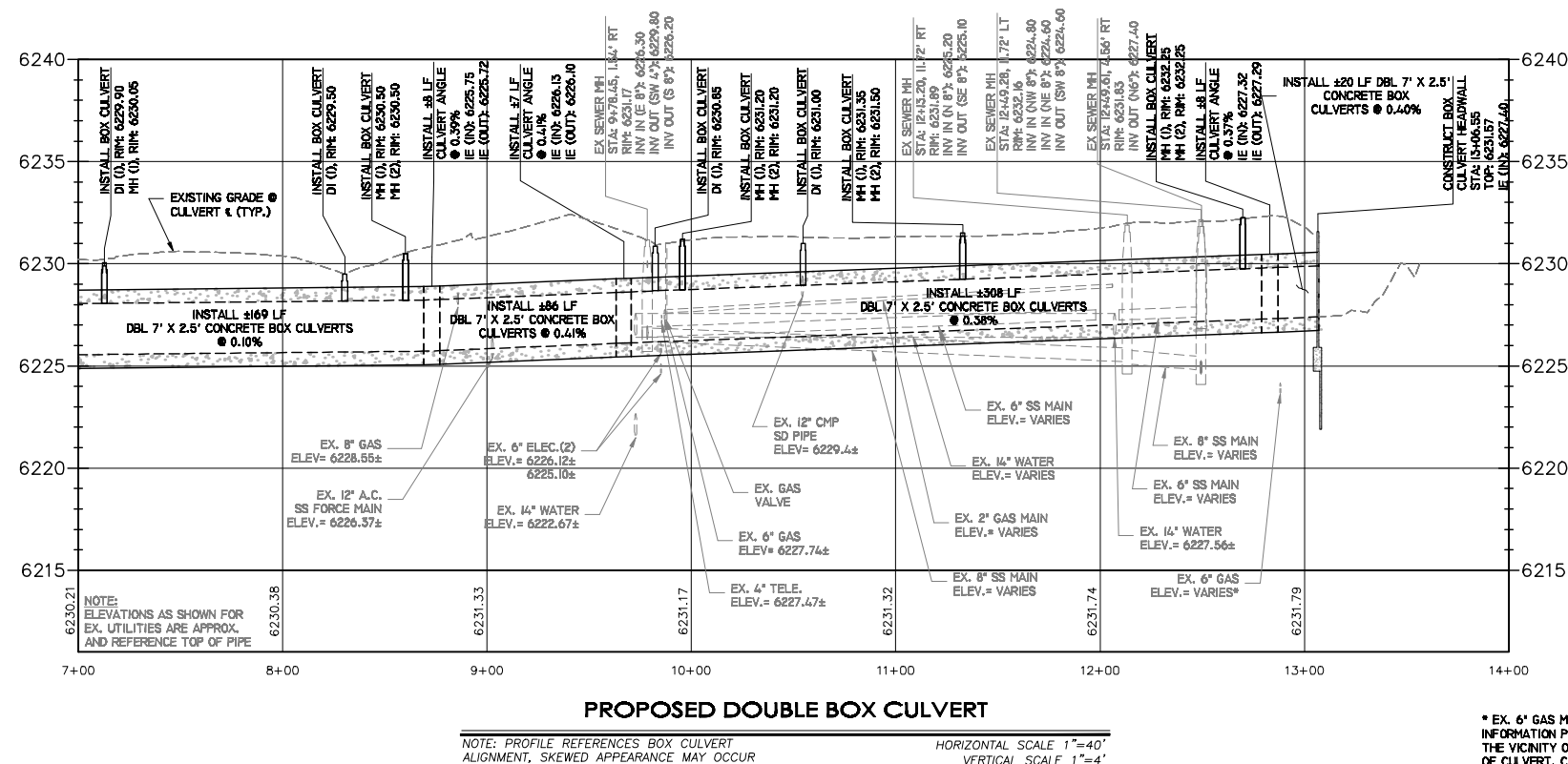
**BIJOU CREEK CULVERT REPLACEMENT PROJECT
BOX CULVERT, STA 1+00 TO 7+00**

SOUTH LAKE TAHOE, CALIFORNIA

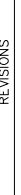
DESIGNED/DRAWN
SP/PW JD/SBEL
CHECKED
SP
DATE
12/17/10
SCALE
AS SHOWN
JOB NO.
31141040.00
FIGURE NO.

C-1

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[illegible]

* EX. 6" GAS MAIN (FAIRWAY DR)
INFORMATION PROVIDED BY SWGS INDICATES A VERTICAL OFFSET (DROP) WAS CONSTRUCTED WITHIN
THE VICINITY OF THE PROPOSED BOX CULVERT ALIGNMENT TO PROVIDE CLEARANCE FOR CONSTRUCTION
OF CULVERT. CONTRACTOR SHALL POTHOLE FOR VERIFICATION.

<p>BIJOU CREEK CULVERT REPLACEMENT PROJECT</p> <p>BOX CULVERT, STA 7+00 TO 14+00</p> <p>SOUTH LAKE TAHOE, CALIFORNIA</p>		<p>SEAL</p>	 <p>CITY OF SOUTH LAKE TAHOE DEPARTMENT OF PUBLIC WORKS 1000 S. LAKE AVENUE SOUTH LAKE TAHOE, CA 96150 STAN B. HILL - CITY ENGINEERING MANAGER PH: (530) 542-3030 FAX: (530) 541-3051</p>	<p>NO.</p>	<p>REVISIONS</p>	<p>DATE</p>	<p>APRVD</p>
<p>DESIGNED/DRAWN SP/PW JD/SB/EL</p>							
<p>CHECKED SP</p>							
<p>DATE 12/17/10</p>							
<p>SCALE AS SHOWN</p>							
<p>JOB NO. 31141040.00</p>							
<p>FIGURE NO. C-2</p>							

1.01 IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE PROPOSED IMPROVEMENTS DO NOT CONFLICT WITH EXISTING OR PROPOSED UTILITIES.

1.02 CONTRACTOR TO VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

1.03 IF ACTUAL CHARACTERISTICS, GRADES, DIMENSIONS, OR SOIL MATERIALS DIFFER FROM THOSE SHOWN ON THESE PLANS, NOTIFY SANDERS & ASSOCIATES GEOSTRUCTURAL ENGINEERING, INC. (GAGE) TO DETERMINE IF ADDITIONAL DESIGN IS REQUIRED.

1.04 THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL MONITOR ALL ADJACENT PROPERTY BY SURVEYING OR OTHER RECORDABLE METHODS, AND TAKE ACTION TO PREVENT ADJACENT PROPERTY OR UTILITY DAMAGE.

2.01 NO UNCURED SHOTCRETE SHALL COME IN CONTACT WITH LAKE WATER.

2.02 SHOTCRETE:

- TYPE II CEMENT
- $f_c = 4000$ PSI (MINIMUM 28-DAY COMPRESSIVE STRENGTH)
- MAX WATER-TO-CEMENT (W/C) RATIO = 0.48 BY WEIGHT

2.03 REINFORCING STEEL (WWF)

- ASTM A607
- $f_y = 65$ KSI
- LAP SPlice = 5" MIN

2.04 REINFORCING STEEL (REBAR):

- GRADE 80 ASTM A615 BILLET STEEL
- $f_y = 80$ KSI
- LAP SPlice = 24" FOR #4 BAR
- MIN COVER = 3" UNLESS OTHERWISE NOTED

2.05 SECURELY POSITION REINFORCEMENT, EMBEDS, AND DOWELS PRIOR TO PLACING SHOTCRETE. CENTER REINFORCING STEEL IN SHOTCRETE UNLESS OTHERWISE NOTED.

2.06 SHOTCRETE MATERIAL AND PLACEMENT SHALL BE IN ACCORDANCE WITH CALTRANS STANDARD SPECIFICATIONS, SECTION 84.

2.07 SHOTCRETE THAWING AND FREEZING PROPERTIES SHALL BE IN ACCORDANCE WITH ACI 318 SECTION 4.2.

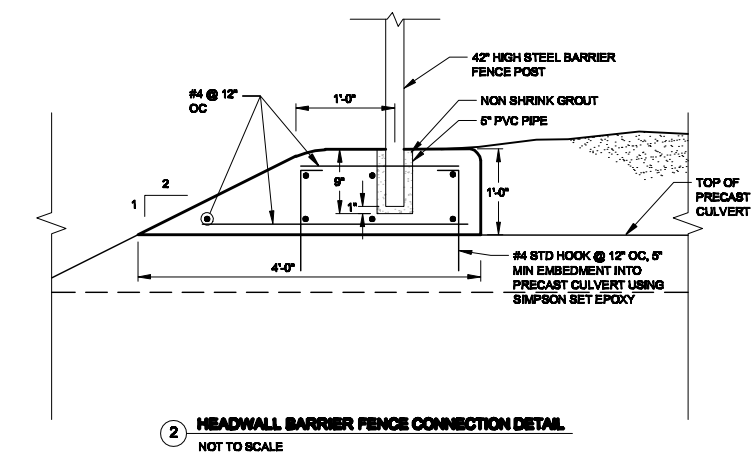
2.08 CLEAR EXCAVATIONS OF WATER OR SLOUGHED MATERIAL IMMEDIATELY PRIOR TO SHOTCRETE PLACEMENT.

2.09 SHOTCRETE SHALL BE STAINED AND TEXTURED TO SIMULATE THE TEXTURE, PATTERN, AND COLOR OF THE NATIVE SAND EXPOSED ON THE BEACH.

2.10 INTEGRAL COLORING AGENT SHALL CONFORM TO THE PROVISIONS OF ASTM C678.

2.11 CONTRACTOR SHALL SUBMIT COLOR SAMPLES TO THE OWNER FOR APPROVAL. TEXTURED AND STAINED SHOTCRETE TEST PANELS SHALL BE PROVIDED TO THE ENGINEER AND OWNER FOR APPROVAL PRIOR TO BEGINNING WORK.

2.12 RECESS ALL PVC PIPE SUCH THAT ALL EDGES OF PVC PIPE ARE COVERED WITH 1" MIN SHOTCRETE.



OUTLET HEADWALL - ELEVATION VIEW
 SCALE: 1"=4'

Dimensions and components shown in the elevation view:

- Overall width: 51'-0" ±
- Top of outlet headwall (match EG): 36'-0" ±
- 42" high steel barrier fence (designed by others)
- 24" Ø HDPE (match invert of culverts)
- DOUBLE BOX CULVERT, SEE SHEET D-1
- TOOLED JOINT, TYP
- 2'-0" MIN (on both ends)
- EG (Existing Ground)
- 2'-0" MIN (on left side)
- FINISHED GRADE
- WRAP RIP RAP AROUND TOP OF HEADWALL PER CIVIL
- 8'-0" MAX (rip rap width)
- RIP RAP, SEE SHEET D-3
- WEEP HOLE
- BOTTOM OF OUTLET HEADWALL KEYWAY

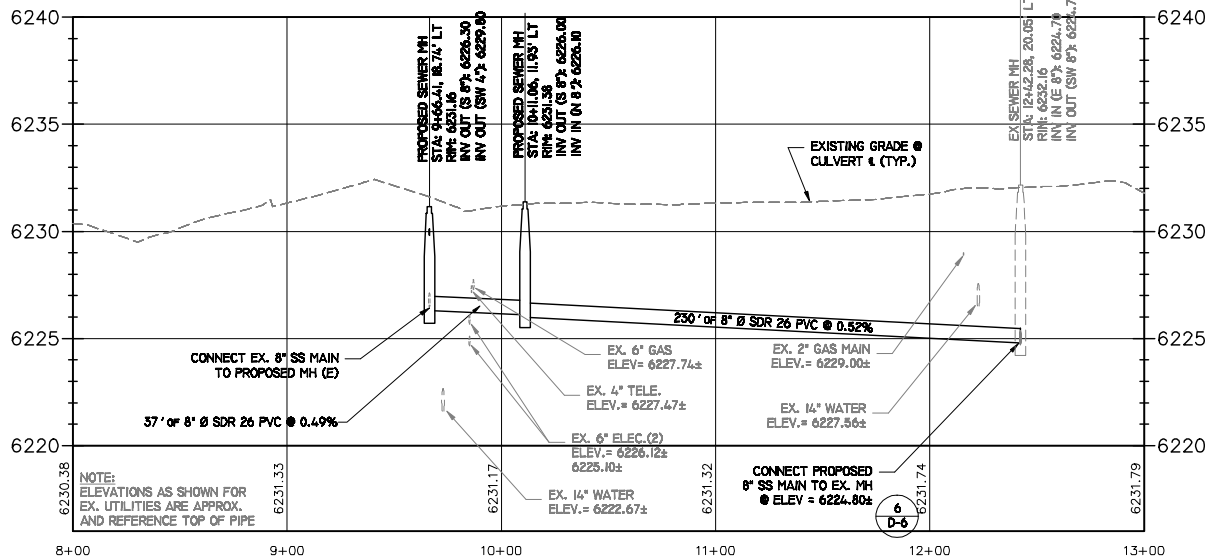
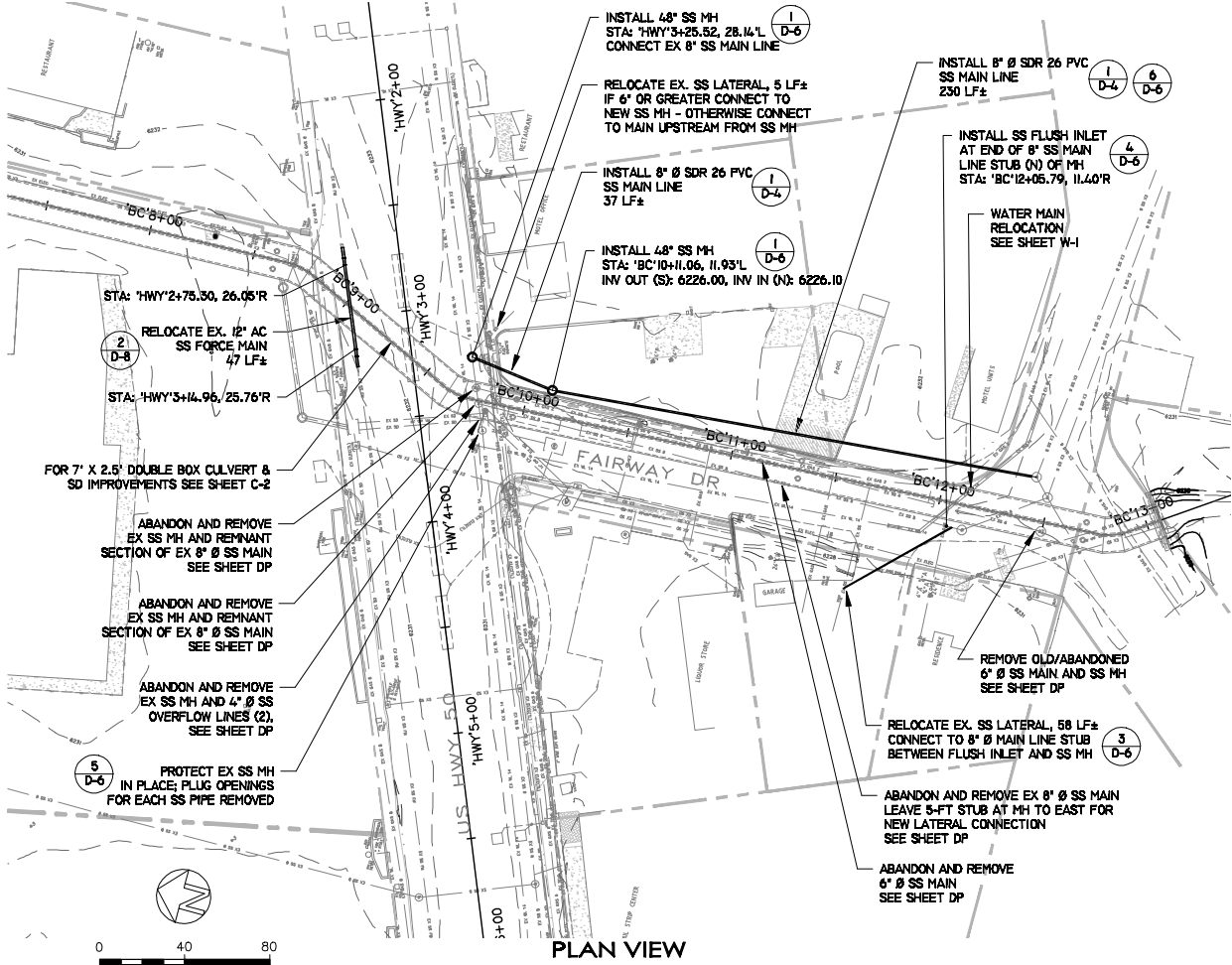


CAUTION! ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE AND NEED TO BE POTHOLED PRIOR TO CONSTRUCTION.

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CONTACT UNDERGROUND SERVICE ALERT (USA)
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PRIOR TO ANY CONSTRUCTION WORK

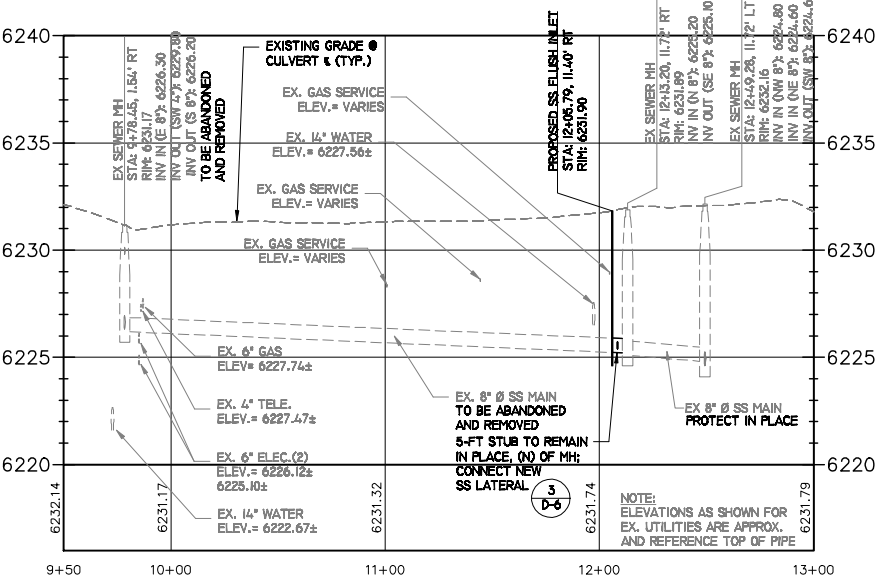
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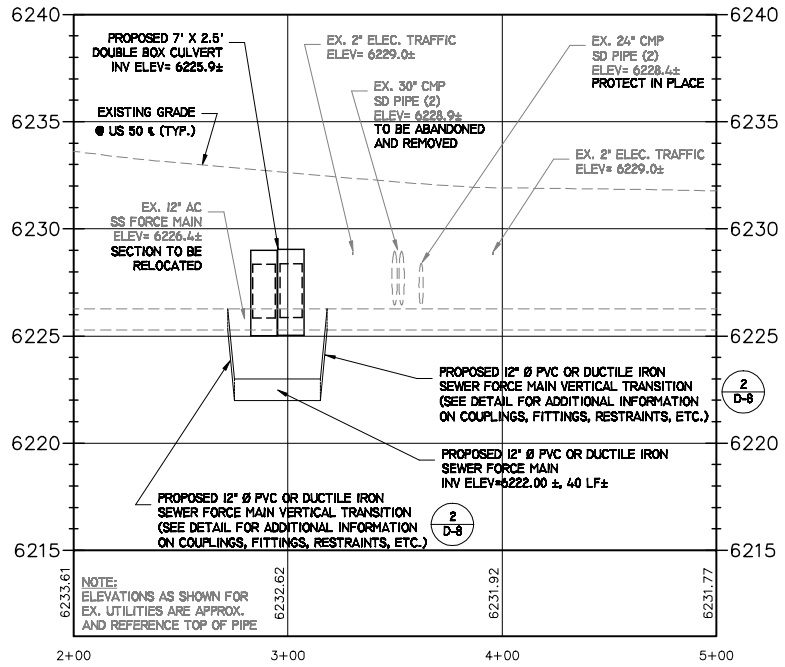
RELOCATION OF 8" SS MAIN - FAIRWAY DR

NOTE: PROFILE REFERENCES BOX CULVERT ALIGNMENT, SKEWED APPEARANCE MAY OCCUR



FLUSH INLET & SS LATERAL - FAIRWAY DR

NOTE: PROFILE REFERENCES BOX CULVERT ALIGNMENT, SKEWED APPEARANCE MAY OCCUR



12" AC SS FORCE MAIN RELOCATION - HWY 50

NOTE: PROFILE REFERENCES US HWY 50 ALIGNMENT, SKEWED APPEARANCE MAY OCCUR



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BIJOU CREEK CULVERT REPLACEMENT PROJECT
SEWER RELOCATION - FAIRWAY AVE & US HWY 50
SOUTH LAKE TAHOE, CALIFORNIA

DESIGNED/DRAWN SP/PPW JDS/SEL
CHECKED SP
DATE 12/17/10
SCALE AS SHOWN
JOB NO. 31141040.00
FIGURE NO.

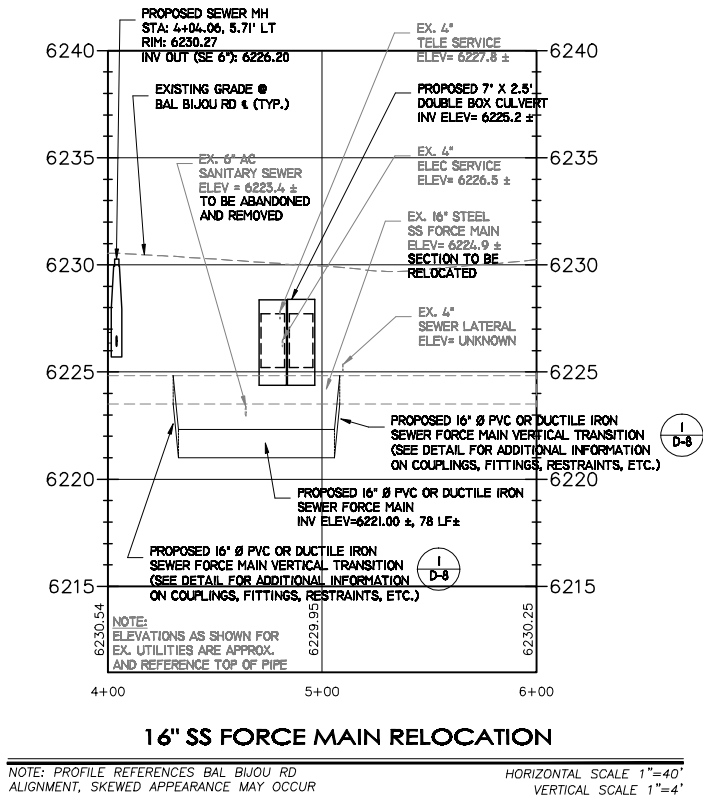
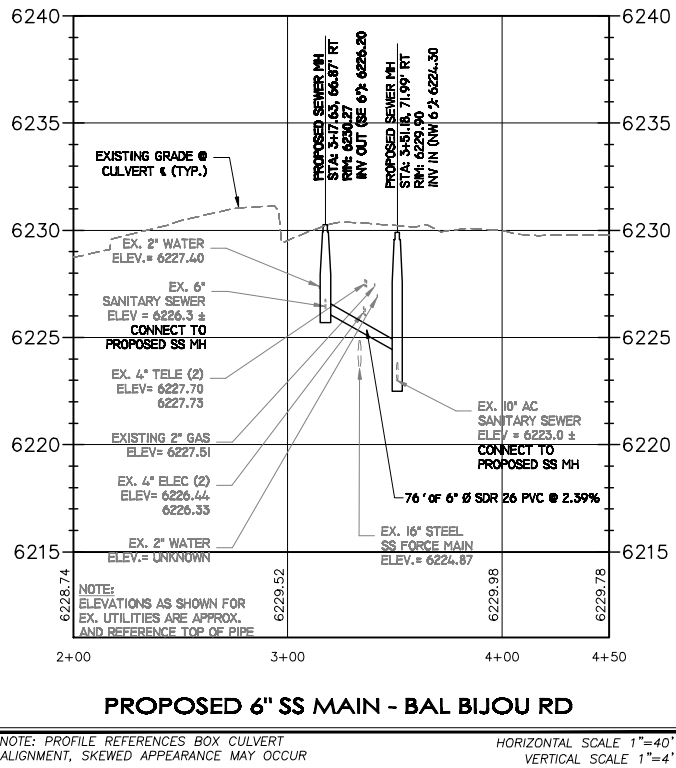
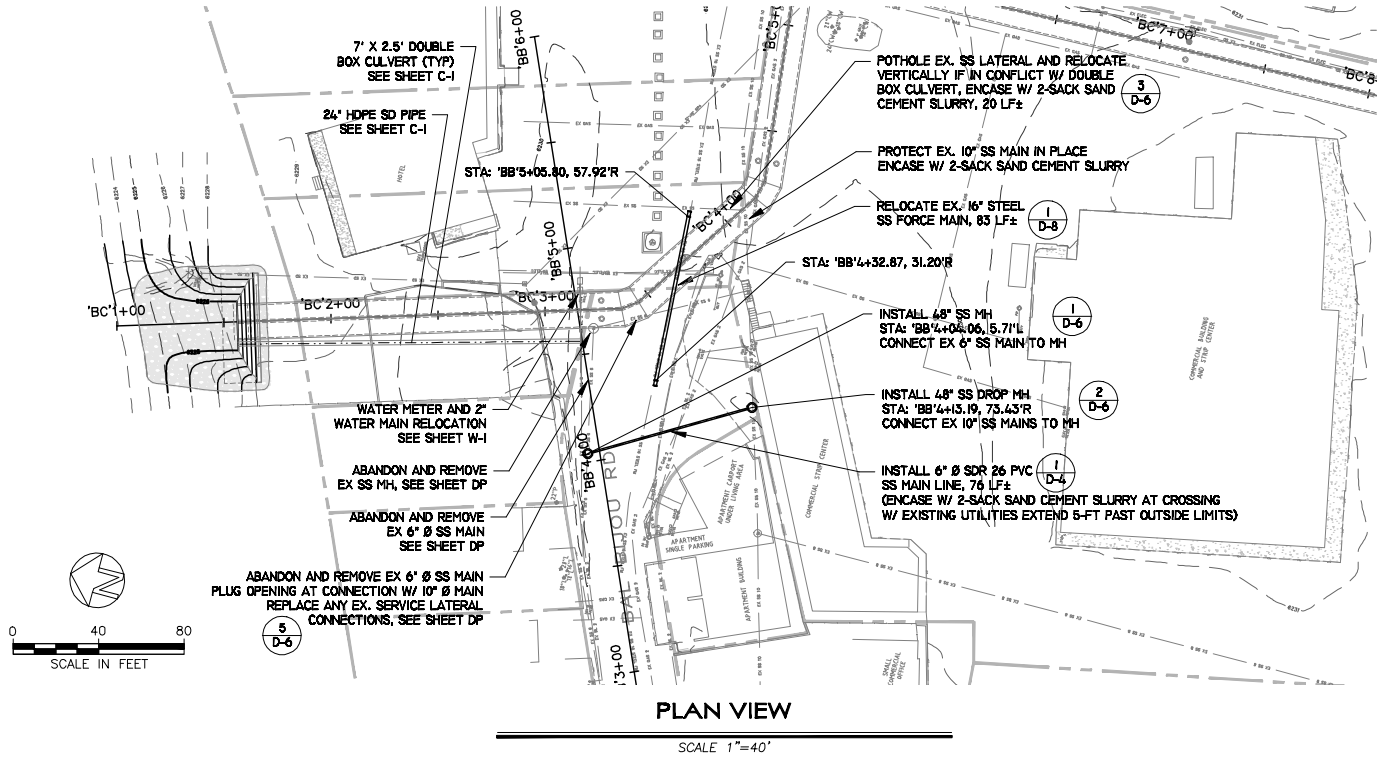
S-1

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BIJOU CREEK CULVERT REPLACEMENT PROJECT
SEWER RELOCATION - BAL BIJOU RD
SOUTH LAKE TAHOE, CALIFORNIA

DESIGNED/DRAWN
SP/PW JD/SBEL
CHECKED
SP
DATE
12/17/10
SCALE
AS SHOWN
JOB NO.
31141040.00
FIGURE NO.

S-2

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1046 SKI RUN BLVD.
SOUTH LAKE TAHOE, CA 96150
(530) 542-0201

DATE	APPROVED
NO.	REVISIONS

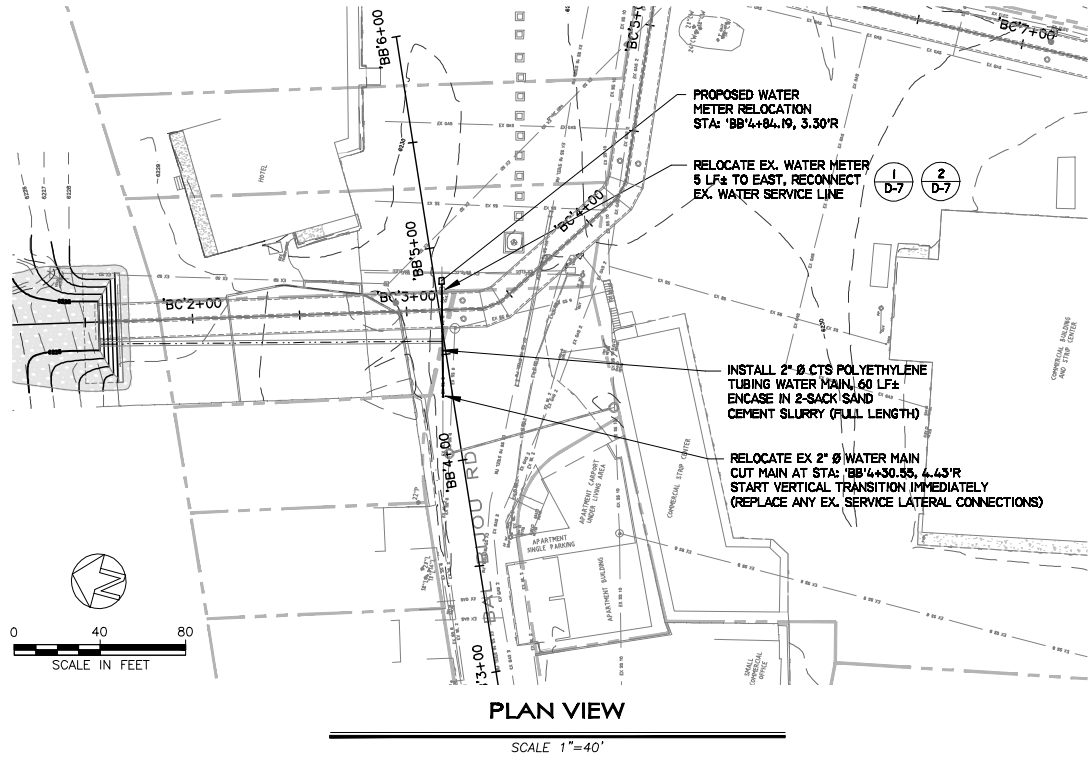
CITY OF SOUTH LAKE TAHOE
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SEAL

**BIJOU CREEK CULVERT REPLACEMENT PROJECT
POTABLE WATER MAIN RELOCATION**
SOUTH LAKE TAHOE, CALIFORNIA

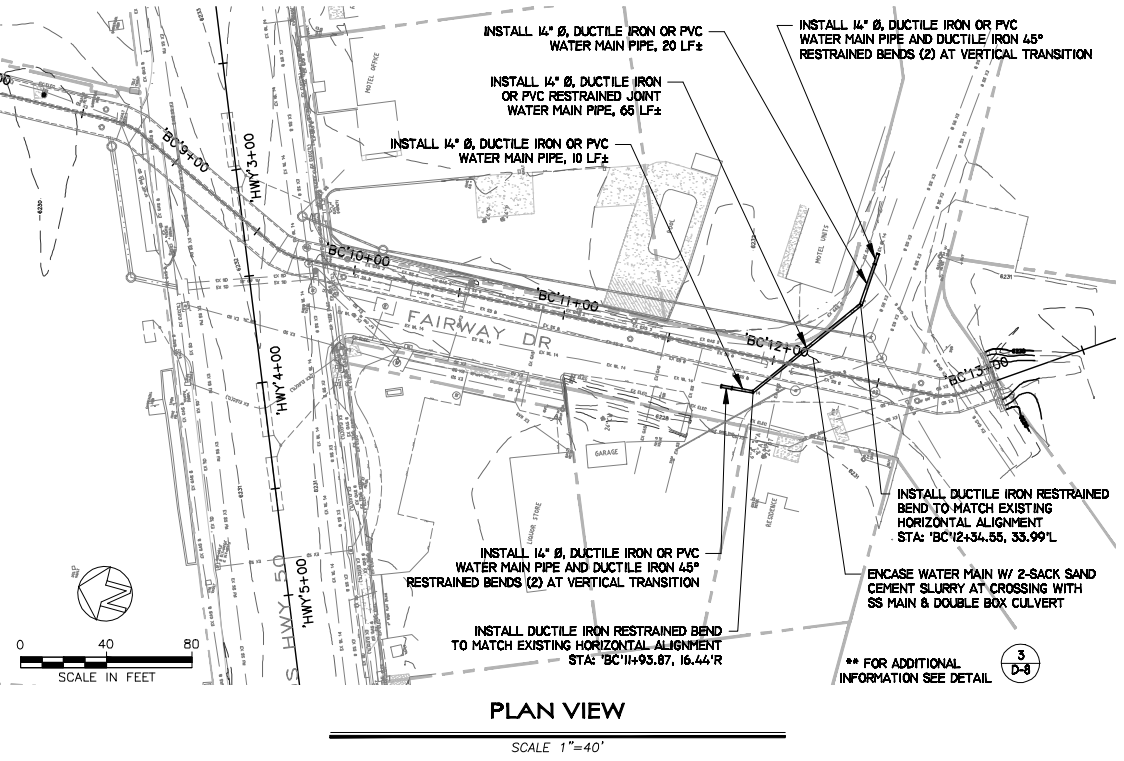
DESIGNED/DRAWN SP/PW JDS/SEL
CHECKED SP
DATE 12/17/10
SCALE AS SHOWN
JOB NO. 31141040.00
FIGURE NO.

W-1



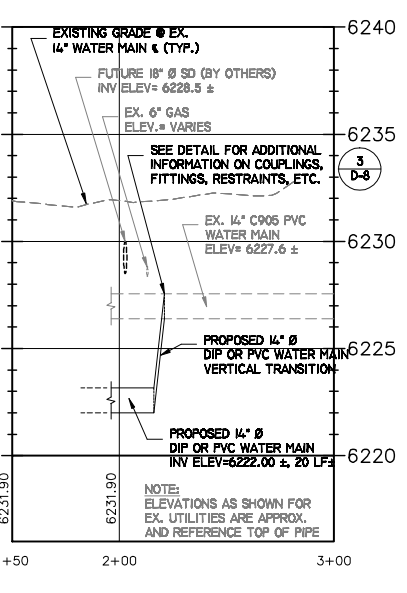
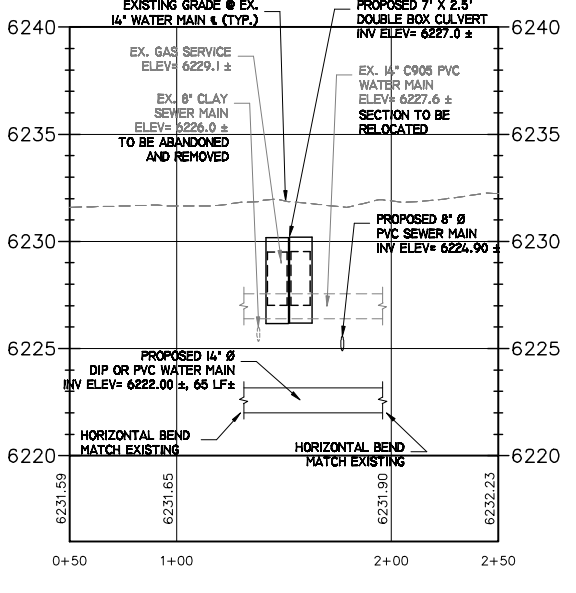
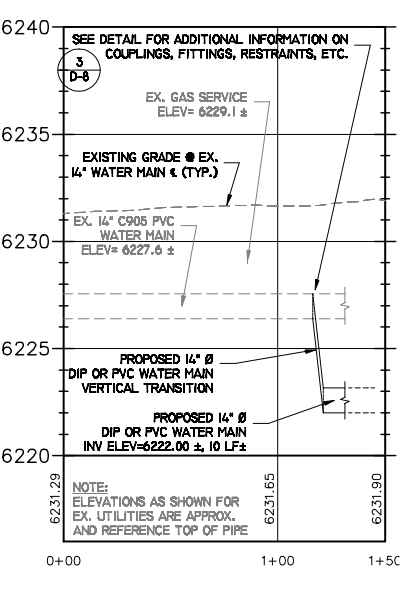
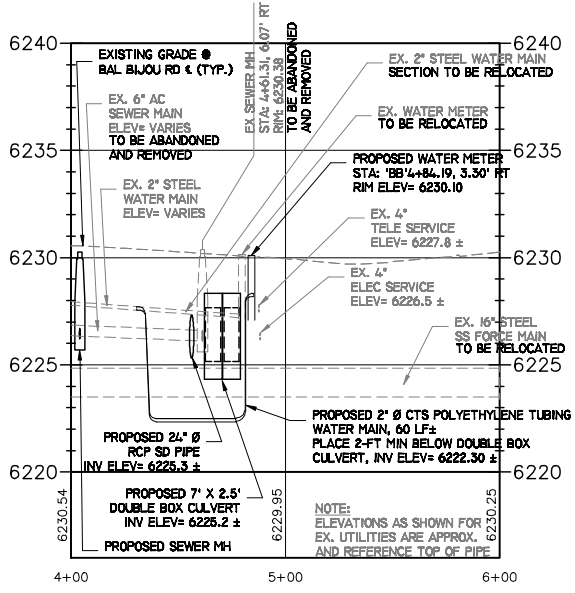
EXISTING 2" WATER MAIN RELOCATION - BAL BIJOU RD

NOTE: PROFILE REFERENCES BAL BIJOU RD ALIGNMENT, SKEWED APPEARANCE MAY OCCUR
HORIZONTAL SCALE 1"=40'
VERTICAL SCALE 1"=4'



EXISTING 14" WATER MAIN RELOCATION - FAIRWAY DR

THIS PROFILE IS FOR REFERENCE ONLY AND FOLLOWS THE EX. 14" WATER MAIN ALIGNMENT. STATION NUMBERS ARE NOT SHOWN IN THE PLAN VIEW.
HORIZONTAL SCALE 1"=40'
VERTICAL SCALE 1"=4'



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50% DRAFT
PLAN SHEET TO BE REVISED FOLLOWING
SITE VISIT AND DIRECTION FROM REVEG SPECIALIST



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**BIJOU CREEK CULVERT REPLACEMENT PROJECT
REVEG-RESTORATION PLAN**
SOUTH LAKE TAHOE, CALIFORNIA

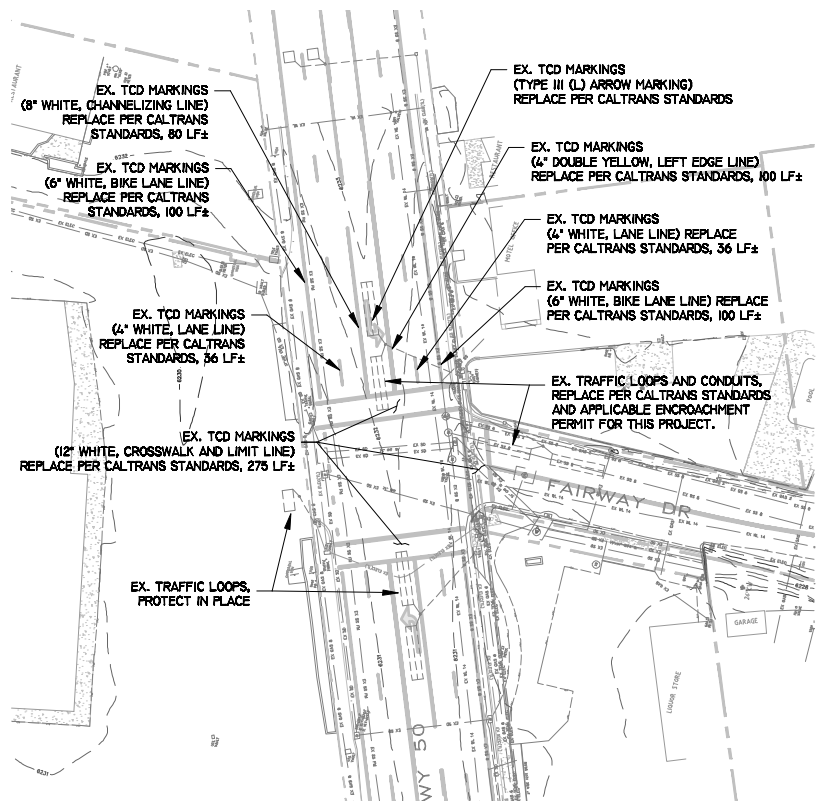
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SP/PW JD/SB/EL
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DATE
12/17/10
SCALE
AS SHOWN
JOB NO.
31141040.00
FIGURE NO.
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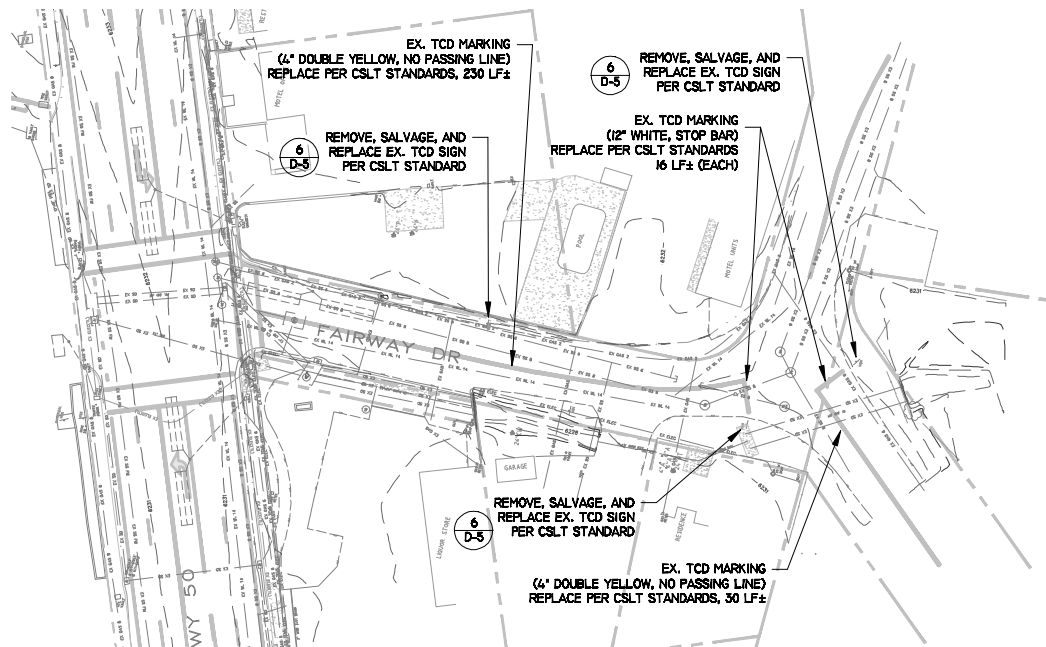
*** CALL BEFORE YOU DIG ***
CONTACT UNDERGROUND SERVICE ALERT (USA)
1-800-367-8800
PRIOR TO ANY CONSTRUCTION WORK

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CONSTRUCTION

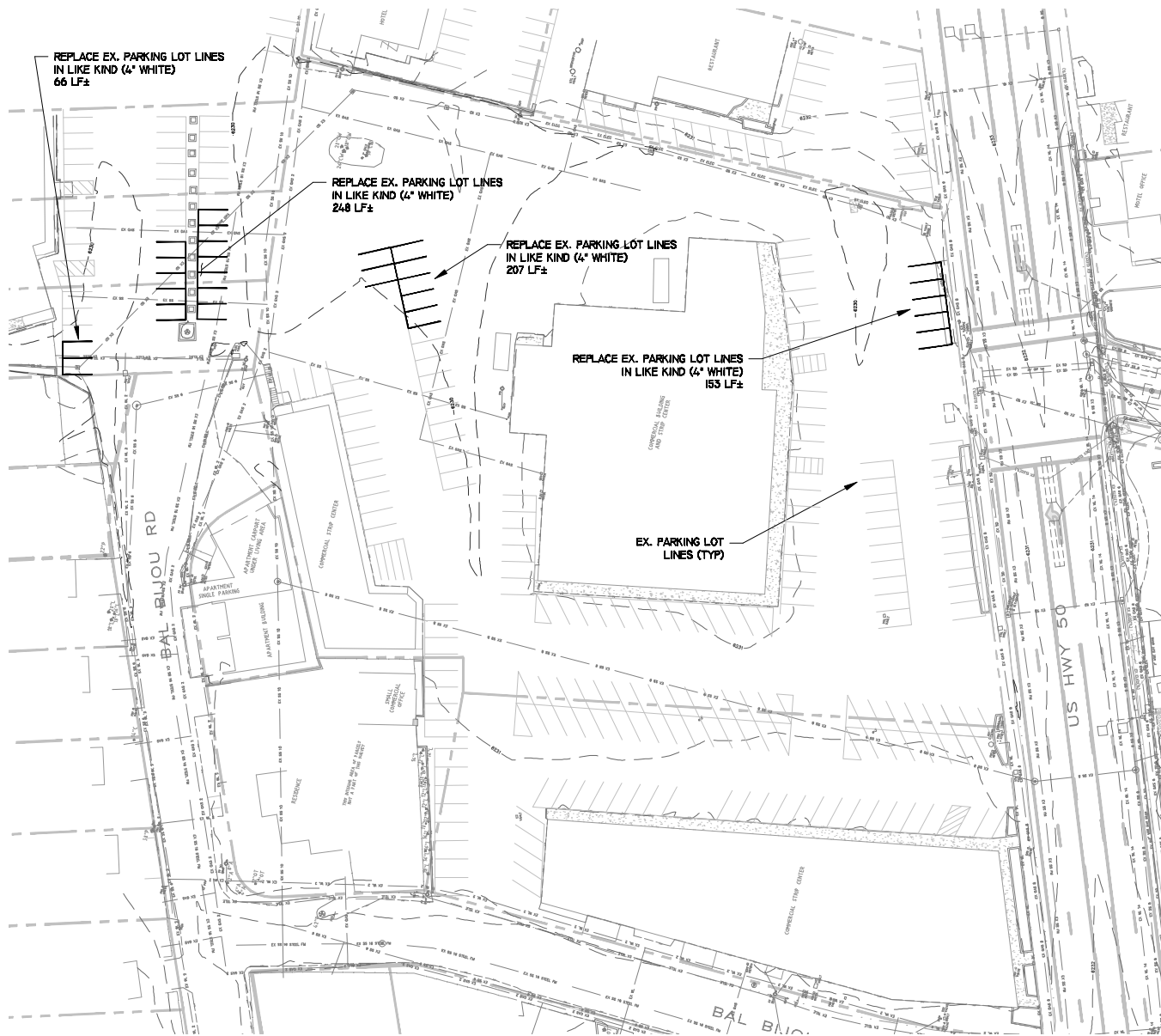
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US HWY 50 (TCD)



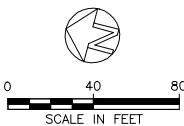
FAIRWAY DR (TCD)



BIJOU CENTER (TCD)

NOTES:

1. THE LOCATIONS OF THE EXISTING CALTRANS TRAFFIC SIGNAL ELECTRICAL CONDUIT AND LOOP DETECTORS, AS SHOWN ON THE PLANS, ARE BASED ON INFORMATION FROM CALTRANS PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY 50 (TROUT CREEK BRIDGE TO SKI RUN BLVD, CONTRACT No. 03-1A73U4).
2. ALL PERMANENT TRAFFIC CONTROL DEVICES (TCD), THAT ARE DISTURBED AND/OR REQUIRED TO BE REPLACED OR INSTALLED, SHALL BE IN ACCORDANCE WITH THE CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS MAY 2006 EDITION, CALTRANS STANDARD SPECIFICATIONS MAY 2006 EDITION, THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2003 EDITION AND MUTCD 2003 CALIFORNIA SUPPLEMENT, THE CITY OF SOUTH LAKE TAHOE (CSLT) STANDARD DETAILS, THE SPECIAL PROVISIONS, AND THESE PLANS.
3. ALL PERMANENT TOD (INCLUDING REPLACEMENT OF EXISTING) ARE TO BE LAID OUT BY THE CONTRACTOR AND ENGINEER. NO TCD SHALL BE INSTALLED PRIOR TO APPROVAL OF LAYOUTS BY THE ENGINEER.
4. REPLACEMENT AND INSTALLATION OF ANY CALTRANS TRAFFIC SIGNAL ELECTRICAL CONDUIT, CONDUCTORS, AND/OR LOOP DETECTORS SHALL BE PER CALTRANS STANDARDS AND THE APPLICABLE ENCROACHMENT PERMIT FOR THIS PROJECT. THE CONTRACTOR SHALL COORDINATE WITH AND RECEIVE APPROVAL FROM THE CALTRANS REPRESENTATIVE AND ENGINEER PRIOR TO INSTALLATION OF ANY TRAFFIC SIGNAL ELECTRICAL COMPONENTS.
5. ALL MAILBOXES, PRIVATE SIGNS, AND OTHER OBJECTS (UNLESS OTHERWISE NOTED ON THE PLANS) IN INTERFERENCE WITH THE PROPER CONSTRUCTION OF THE PROJECT SHALL BE REMOVED AND REPLACED/RELOCATED BY THE CONTRACTOR. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE VARIOUS CONTRACT ITEMS OF WORK AND NO SEPARATE PAYMENT SHALL BE ALLOWED FOR.
6. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE, PLACE, AND MAINTAIN ALL TEMPORARY TRAFFIC CONTROL DEVICES NECESSARY TO COMPLETE THE WORK AS SHOWN ON THIS PLAN SHEET; IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, SPECIAL PROVISIONS, PLANS, AND DETAILS AS NOTED ABOVE.



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BIJOU CREEK CULVERT REPLACEMENT PROJECT
TRAFFIC CONTROL DEVICES

SOUTH LAKE TAHOE, CALIFORNIA

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SP/PW JD/SBEL
CHECKED
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DATE
12/17/10
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31141040.00
FIGURE NO.

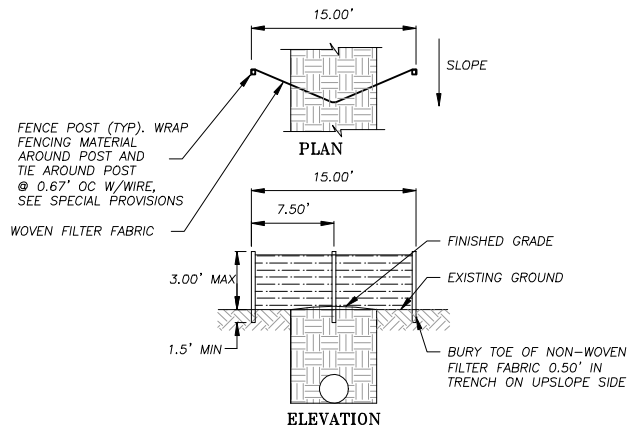
TCD

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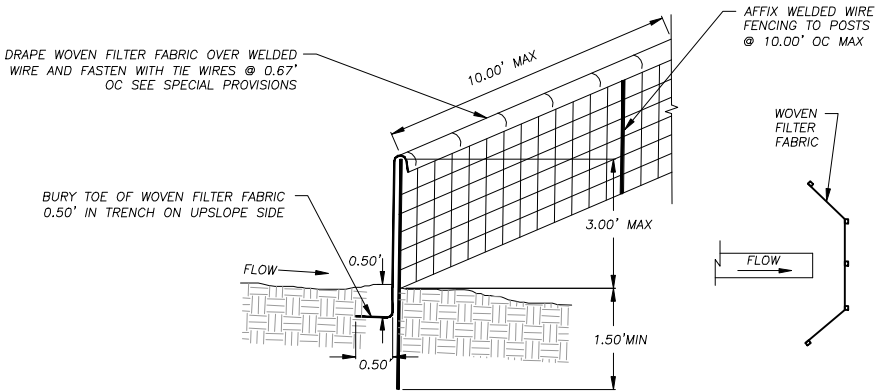
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TYPICAL FILTER FENCE TYPE 1 AT PIPE TRENCH IN BACKFILL AREAS

NTS

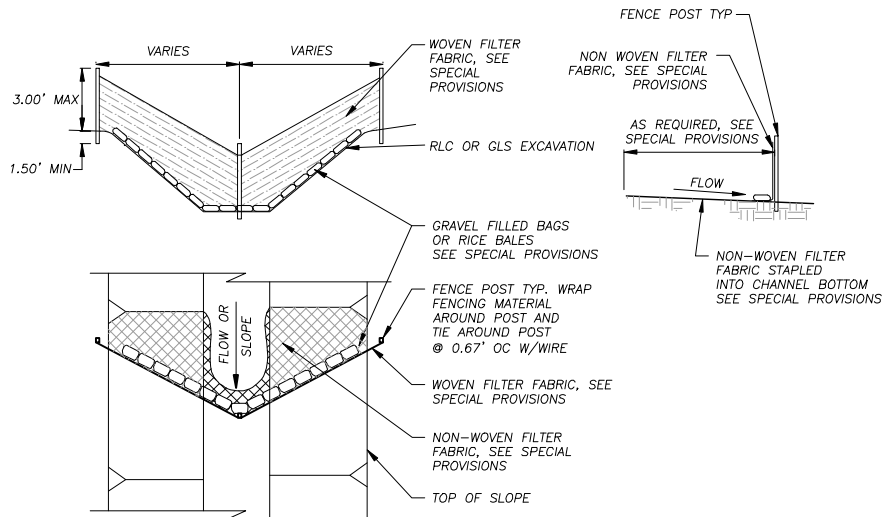
1
ECD-1



TYPICAL FILTER FENCE TYPE 2 AT DOWNHILL EDGE OF CUT AND FILL AREAS

NTS

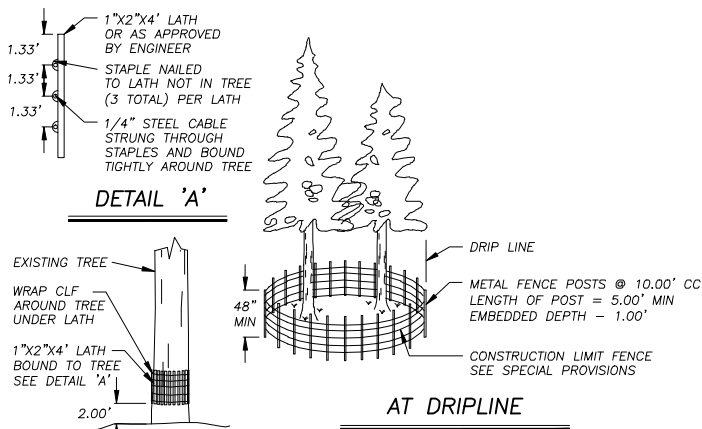
2
ECD-1



TYPICAL FILTER FENCE TYPE 3 AT SWALES

NTS

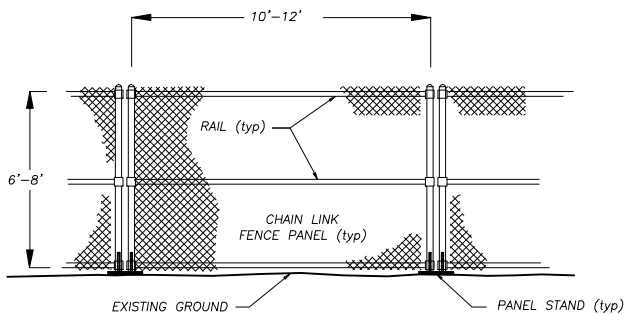
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ECD-1



TYPICAL TREE PROTECTION AND CONSTRUCTION LIMIT FENCE (CLF)

NTS

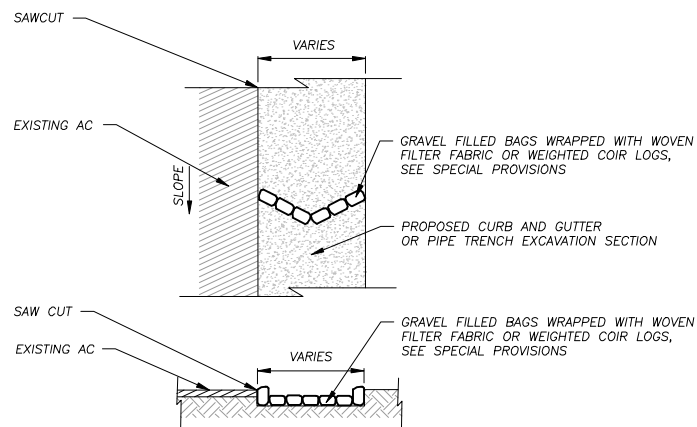
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TEMPORARY CHAIN LINK CONSTRUCTION LIMIT FENCE

NTS

5
ECD-1



TYPICAL SEDIMENT CONTROL AT C&G, SWALE & PIPE TRENCH EXCAVATIONS

NTS

6
ECD-1

SEE SPECIAL PROVISIONS FOR SPECIFICATIONS REGARDING FILTER FABRIC, GRAVEL BAGS, RICE FIBER ROLLS, WEIGHTED COIR LOGS, AND FENCE POSTS.

SPACING INTERVALS FOR TYPE 1 FILTER FENCE, AND C&G SEDIMENT CONTROL SHALL BE AT 50' OC FOR SLOPES GREATER THAN 5% AND AT 100' OC FOR SLOPES LESS THAN OR EQUAL TO 5%.

LOCATIONS AND LF OF TYPE 2 FILTER FENCE REQUIRED FOR THE STAGING AREAS ARE NOT SHOWN. THE CONTRACTOR IS TO INCLUDE THESE AREAS IN HIS TEMPORARY EROSION CONTROL PLAN SUBMITTAL.

DIMENSION LIMITS OF FILTER FENCE AND CONSTRUCTION LIMIT FENCE DOES NOT INCLUDE MINIMUM LIMITS FOR TREE PROTECTION. TREE PROTECTION FENCING TO BE PER DETAIL THIS SHEET AND/OR AS DETERMINED IN THE FIELD.



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**BIJOU CREEK CULVERT REPLACEMENT PROJECT
TEMPORARY EROSION CONTROL DETAILS - 1**

SOUTH LAKE TAHOE, CALIFORNIA

DESIGNED/DRAWN
SP/PW JCV/SBL
CHECKED
SP
DATE
12/17/10
SCALE
AS SHOWN
JOB NO.
31141040.00
FIGURE NO.

ECD-1

20 OF 35

CAUTION! ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE AND NEED TO BE POTHOLED PRIOR TO CONSTRUCTION.

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CONSTRUCTION

APPROVED	
DATE	
REVISIONS	
NO.	

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SOUTH LAKE TAHOE, CA 96150
STAN B. HILL - CITY ENGINEERING MANAGER
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SEAL

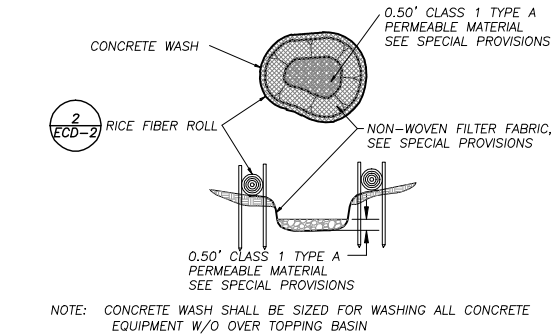
BIJOU CREEK CULVERT REPLACEMENT PROJECT
TEMPORARY EROSION CONTROL DETAILS - 2

SOUTH LAKE TAHOE, CALIFORNIA

DESIGNED/DRAWN
SP/PW JDS/SEL
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JOB NO.
31141040.00
FIGURE NO.

ECD-2

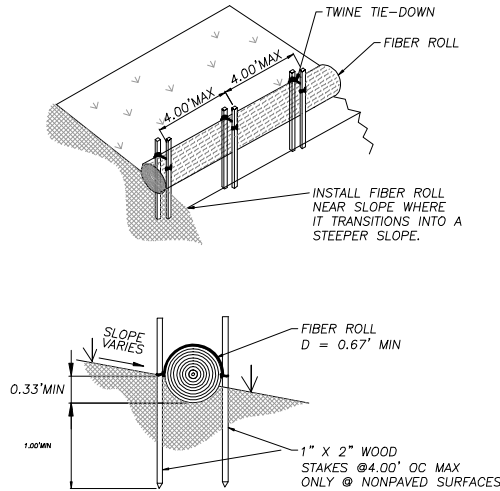
21 OF 35



CONCRETE WASH BASIN

NTS

1
ECD-2

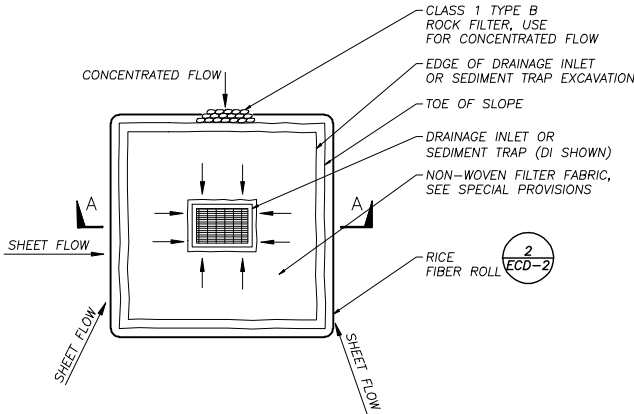
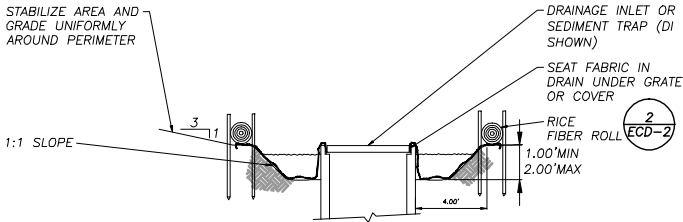


NOTE: 1. INSTALL FIBER ROLL ALONG LEVEL CONTOUR.

TYPICAL FIBER ROLL INSTALLATION

NTS

2
ECD-2

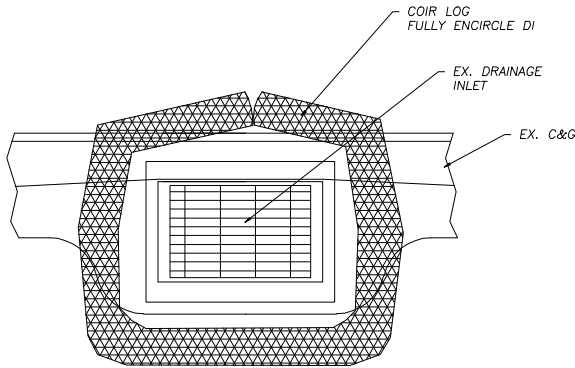


- NOTES:
1. FOR USE IN CLEARED AND GRUBBED AND IN GRADED AREAS.
 2. SHAPE BASIN SO THAT LONGEST INFLOW AREA FACES LONGEST LENGTH OF TRAP
 3. FOR CONCENTRATED FLOWS, SHAPE BASIN IN 2:1 RATIO VERSUS 1:1 WITH LENGTH ORIENTED TOWARDS DIRECTION OF FLOW
 4. FOR ST INSTALLATION PROVIDE CUT OUT IN FABRIC FOR WINDOW DRAIN AND CLAMP IN PLACE.

TYPICAL DRAINAGE INLET PROTECTION - TYPE 1

NTS

4
ECD-2

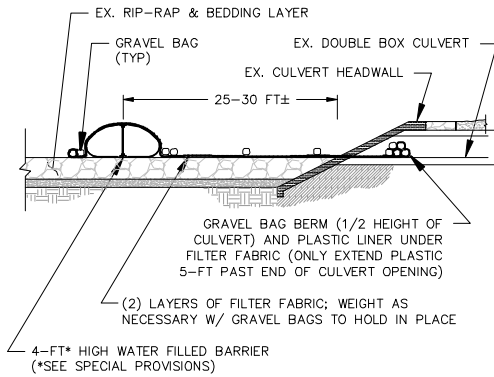


- NOTES:
1. INTENDED FOR SHORT-TERM USE ONLY.
 2. USE WEIGHTED COIR LOGS OR WEIGHT DOWN WITH GRAVEL BAGS.
 3. ALLOW FOR PROPER MAINTENANCE AND CLEANUP.
 4. BAGS MUST BE REMOVED AFTER ADJACENT OPERATION IS COMPLETED.

TYPICAL DRAINAGE INLET PROTECTION - TYPE 2

NTS

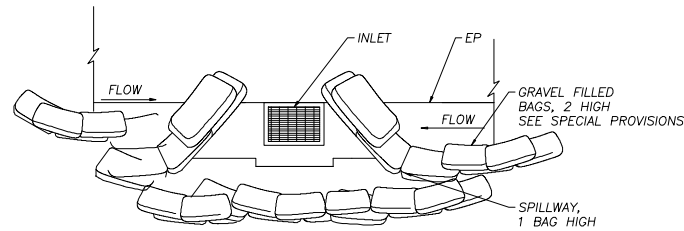
5
ECD-2



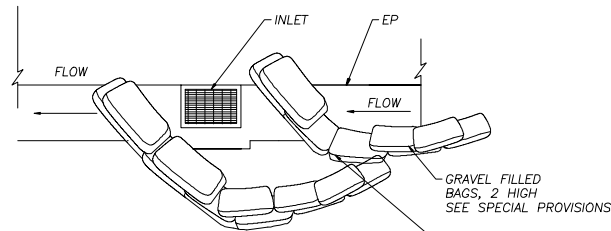
WATER FILLED BARRIER AT OUTFALL

NTS

3
ECD-2



AT SAG



ON GRADE

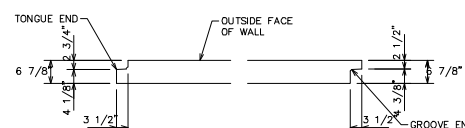
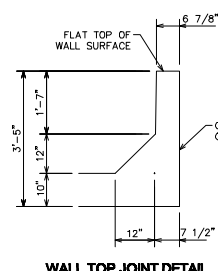
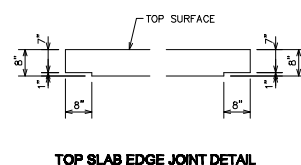
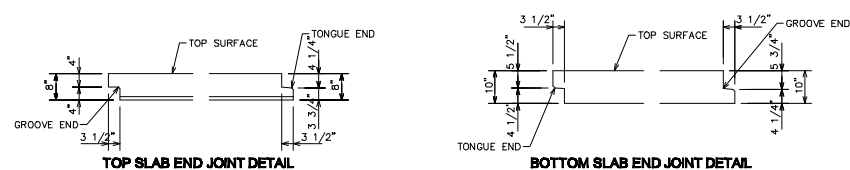
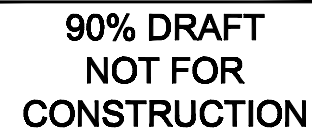
- NOTES:
1. INTENDED FOR SHORT-TERM USE ONLY.
 2. USE TO INHIBIT NON-STORMWATER SUCH AS DUST CONTROL WATERING FLOW.
 3. ALLOW FOR PROPER MAINTENANCE AND CLEANUP.
 4. BAGS MUST BE REMOVED AFTER ADJACENT OPERATION IS COMPLETED.

TYPICAL DRAINAGE INLET PROTECTION - TYPE 3

NTS

6
ECD-2

*** CALL BEFORE YOU DIG ***
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1-800-227-2600
PRIOR TO ANY CONSTRUCTION WORK



WALL END JOINT DETAIL

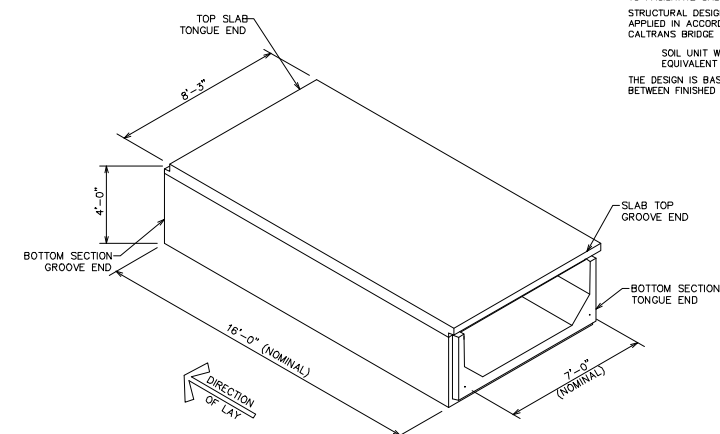
7'-0"x2'-6"
SPLIT BOX CULVERT
JOINT DETAILS
JENSEN PRECAST

3		
2		
1		
0	08-11-09	NEW DRAWING
REV	DATE	DESCRIPTION

JENSEN
PRECAST[®]

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FILE NO. BC-072516-CAL TRANS-JOINT



ALL CONCRETE TO HAVE 28 DAY COMPRESSIVE STRENGTH OF 5000 psi

REINFORCING STEEL SHALL COMPLY WITH ASTM A615 GRADE 60, #7 OR #8 BARS. BARS BENDING AND PLACEMENT SHALL COMPLY WITH THE LATEST ACI STANDARDS.

EQUIVALENT AREA $F_y = 65000$ psi ASTM A 185 OR A 497

REINFORCING BARS MAY BE UTILIZED IN LINE OR 60°

REINFORCING BARS.

LIFTING INSERTS FOR HANDLING SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.

MINIMUM CURING OF WALLS SHALL BE AT RATE OF 1" PER FT TO FACILITATE CASTING OF PRODUCT.

STRUCTURAL DESIGN IS BASED ON AASHTO HS 20 LOADING

REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE

OF CALTRANS DESIGN PRACTICE AND AASHTO.

SOIL UNIT WEIGHT - 140 lbs/cu.ft.

EQUIVALENT LATERAL PRESSURE - 140 lbs/cu.ft.

THE DESIGN IS BASED ON THE TOP SLAB AT ANY ELEVATION

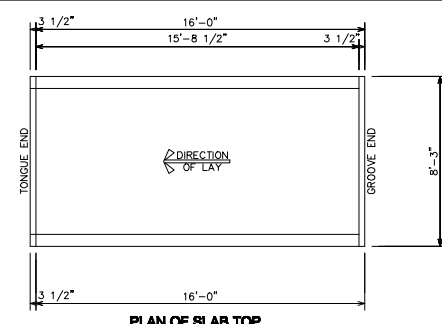
BEING CONSIDERED GRADED.

3		
2		
1		
0	08-11-09	NEW DRAWING
REV	DATE	DESCRIPTION

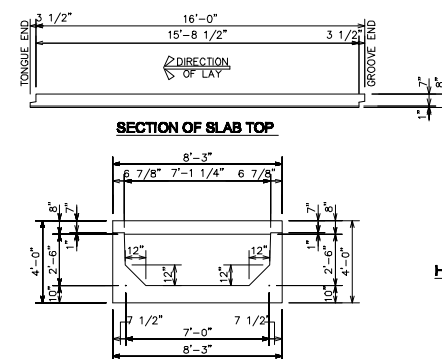
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FILE NO. BC-02516-CALTRANS-ISO

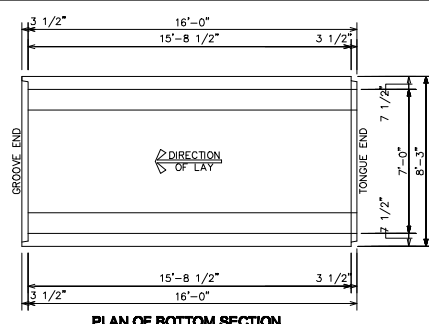


PLAN OF SLAB TOP

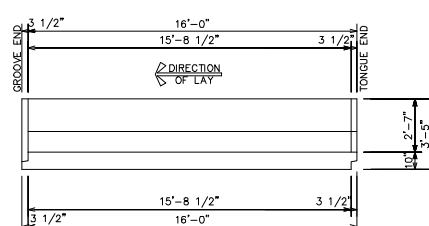


ASSEMBLED CROSS SECTION

16'-0" LONG SLAB TOP SECTION - 3.20 CU.YD. - 12,980 LBS
16'-0" LONG SLAB BOTTOM SECTION - 6.50 CU.YD. - 26,320 LBS



PLAN OF BOTTOM SECTION



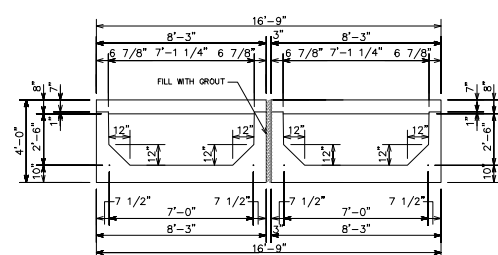
SECTION OF BOTTOM SECTION

3		
2		
1		
0	08-11-09	NEW DRAWING
REV	DATE	DESCRIPTION

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FILE NO. BC-072516-CALTRANS-LAYOUT



ASSEMBLED DOUBLE BARREL CROSS SECTION

NOTES:

- 1) THE DETAILS PROVIDED ON THIS SHEET FROM JENSEN PRECAST ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL PROVIDE ALL SHOP DRAWINGS AND SUBMITTALS AS REQUIRED PER THE SPECIAL PROVISIONS.
- 2) STRUCTURAL DESIGN SHALL BE BASED ON HS-20 TRAFFIC LOADING APPLIED IN ACCORDANCE WITH THE REQUIREMENTS OF AASHTO AND CALTRANS BRIDGE DESIGN PRACTICE.
- 3) JOINTS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND MANUFACTURERS REQUIREMENTS.

**BIJOU CREEK CULVERT REPLACEMENT PROJECT
DETAIL SHEET**

SOUTH LAKE TAHOE, CALIFORNIA

DESIGNED/DRAWN	SP/PW JD/SB/EL
CHECKED	SP
DATE	12/17/10
SCALE	AS SHOWN
JOB NO.	31141040.00
FIGURE NO.	

D-1

22 OF 35

7'X2.5' DOUBLE BOX CULVERT

NTS

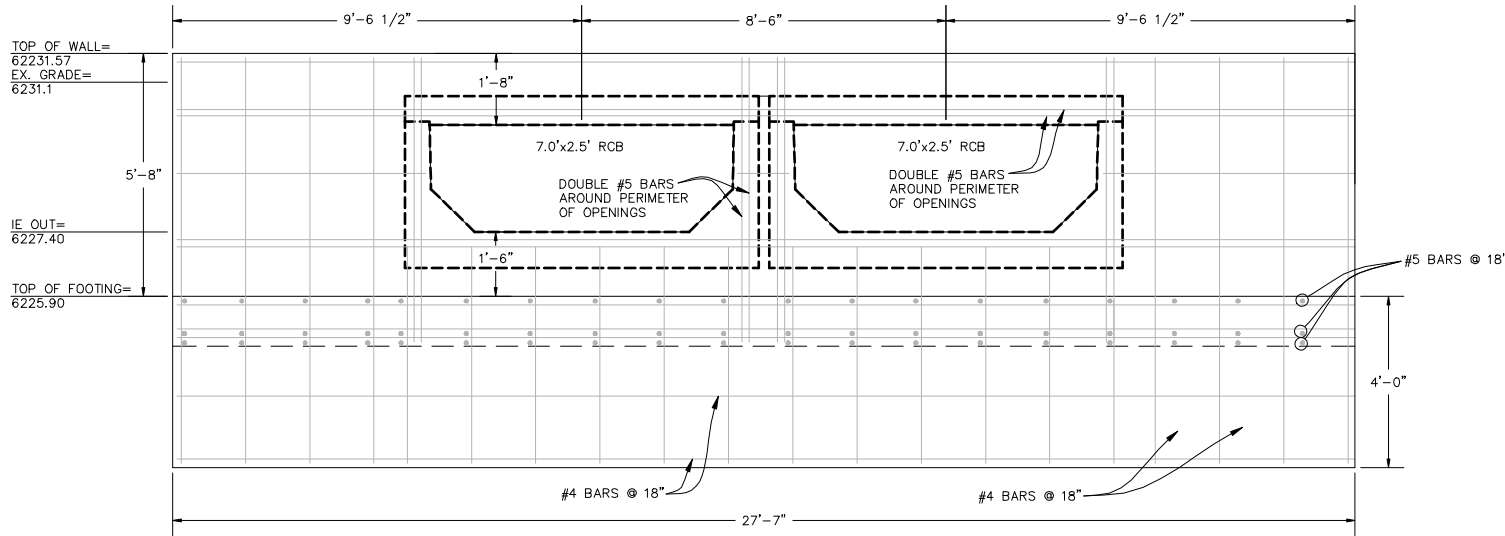
$$\frac{1}{D-1}$$

CAUTION! ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE AND NEED TO BE POTHOLED PRIOR TO CONSTRUCTION.

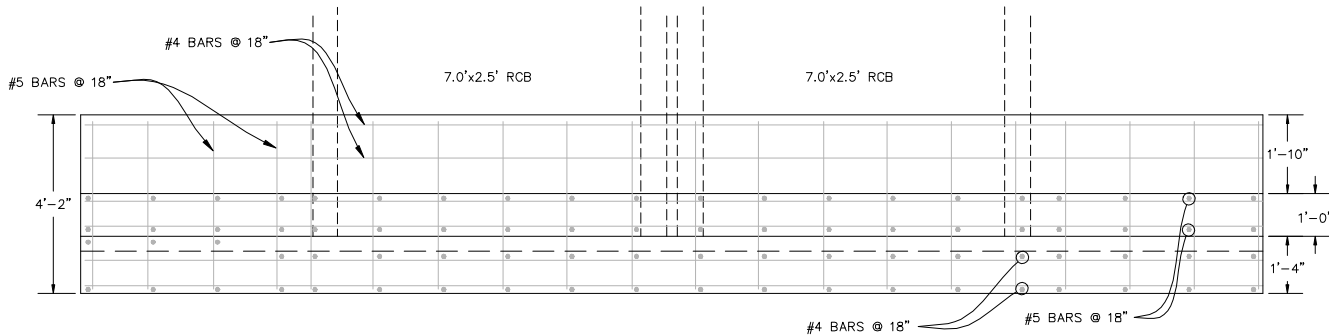
*** CALL BEFORE YOU DIG ***
CONTACT UNDERGROUND SERVICE ALERT (USA)
1-800-227-2800
PRIOR TO ANY CONSTRUCTION WORK

**90% DRAFT
NOT FOR
CONSTRUCTION**

**Cardno
ENTRIX**
1046 SKI RUN BLVD.
SOUTH LAKE TAHOE, CA 96150
(530) 642-0201



SECTION VIEW

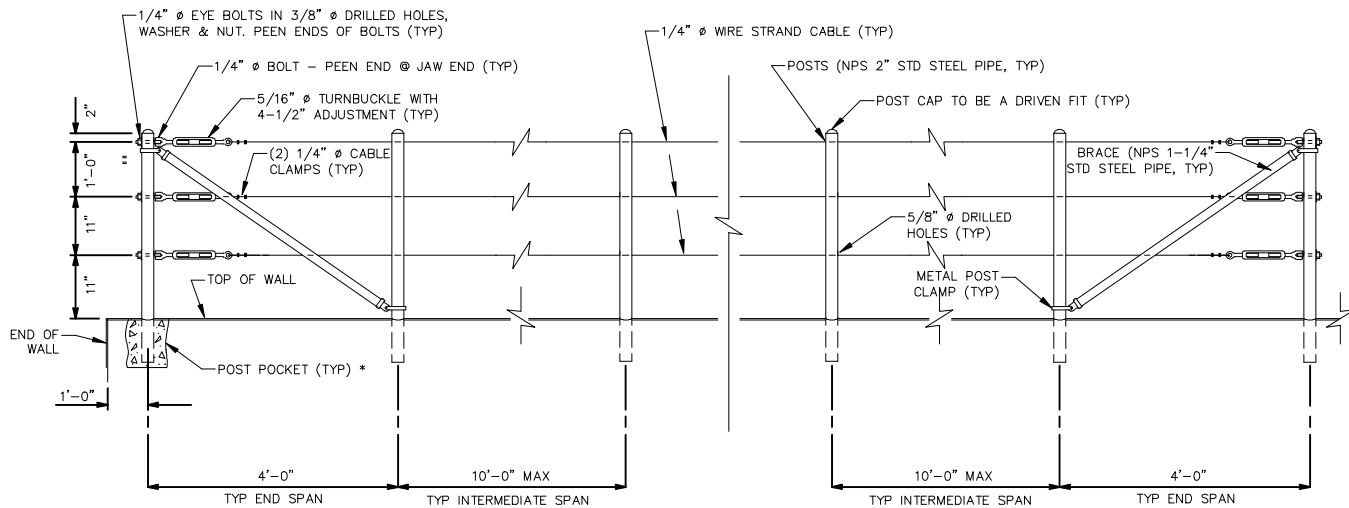


PLAN VIEW

7'x2.5' DOUBLE BOX CULVERT HEADWALL (INLET ONLY)

NTS

1
D-2

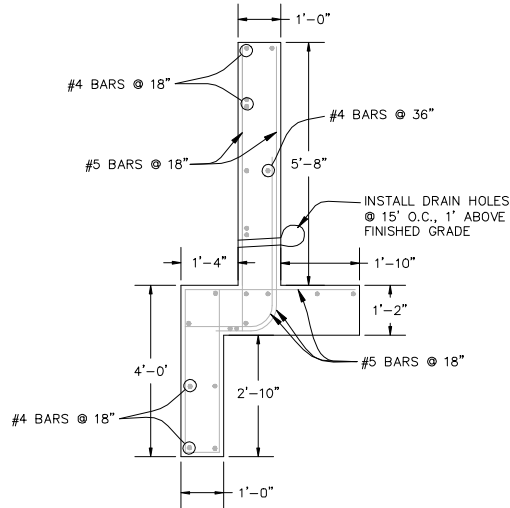


ELEVATION

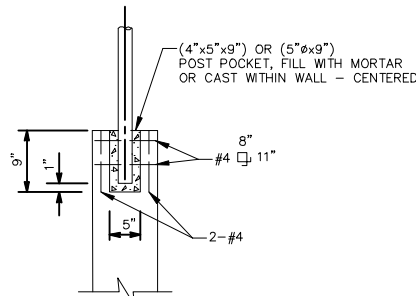
7'x2.5' DOUBLE BOX CULVERT HEADWALL BARRIER FENCE

NTS

2
D-2



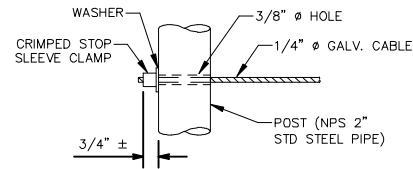
- NOTES:
- 1) PORTLAND CEMENT CONCRETE SHALL CONTAIN NOT LESS THAN 658 POUNDS OF CEMENT PER CUBIC YARD.
 - 2) ALL REINFORCEMENT SHALL HAVE A CLEAR COVERAGE OF NO LESS THAN 2-INCHES, MEASURED FROM THE FINISHED SURFACE OF THE CONCRETE TO THE OUTSIDE OF THE REINFORCEMENT.
 - 3) SEE THE SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - 4) SEE SHEET C-3 FOR THE BOX CULVERT HEADWALL OUTLET STRUCTURE.



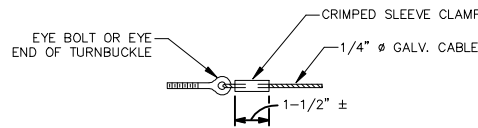
POST POCKET

* FOR INLET HEADWALL ONLY
SEE CONNECTION DETAIL ON SHEET
C-3 FOR OUTLET HEADWALL

- NOTES:
- 1) CABLE SHALL NOT BE SPLICED BETWEEN TURNBUCKLES OR END POSTS.
 - 2) PROVIDE THIMBLES AT ALL CABLE LOOPS.
 - 3) ALL POSTS, CABLE, AND HARDWARE TO BE GALVANIZED.
 - 4) THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.
 - 5) ALTERNATIVE DETAILS MAY BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL BY THE ENGINEER.
 - 6) ALL EXPOSED SURFACES SHALL BE COLORED TO CLOSELY MATCH NATIVE BEACH SAND WITH EPOXY-TYPE POWDER FINISH. PRIOR TO PAINTING, CONTRACTOR SHALL SUBMIT A COLOR SAMPLE TO ENGINEER FOR APPROVAL. GALVANIZED FINISHES ARE PROHIBITED.



ALTERNATIVE DEAD END ANCHORAGE



ALTERNATIVE CABLE CONNECTION



CITY OF SOUTH LAKE TAHOE
DEPARTMENT OF PUBLIC WORKS
1082 TATA LANE
SOUTH LAKE TAHOE, CA 96150
PH: (530) 442-0000 FAX: (530) 541-3061

**BIJOU CREEK CULVERT REPLACEMENT PROJECT
DETAIL SHEET**

SOUTH LAKE TAHOE, CALIFORNIA

DESIGNED/DRAWN
SP/PW JD/BS/EL
CHECKED
SP
DATE
12/17/10
SCALE
AS SHOWN
JOB NO.
31141040.00
FIGURE NO.

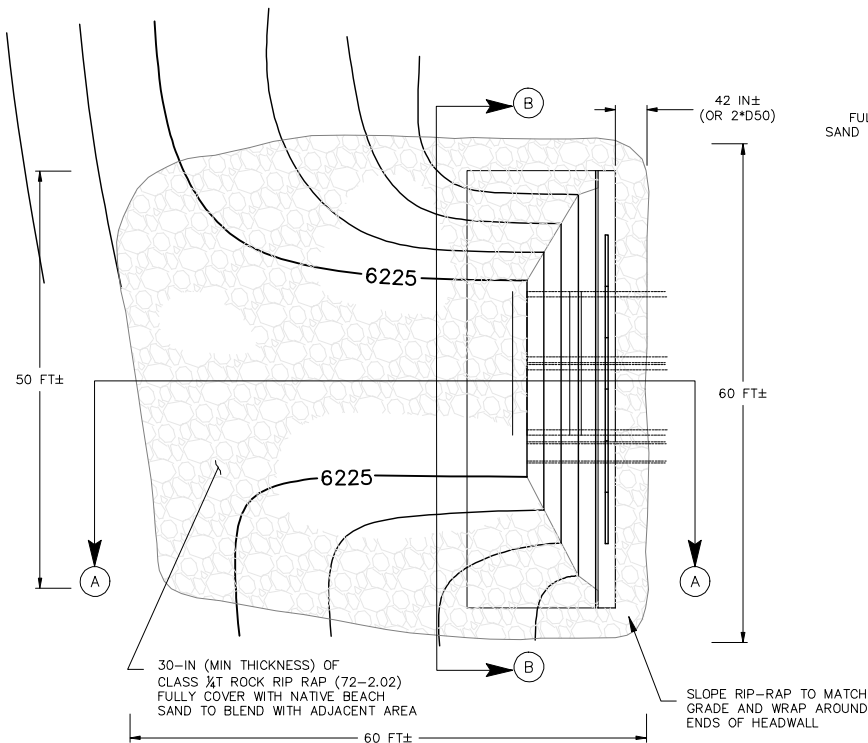
D-2

CAUTION! ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE AND NEED TO BE POTHOLED PRIOR TO CONSTRUCTION.

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1-800-227-2600
PRIOR TO ANY CONSTRUCTION WORK

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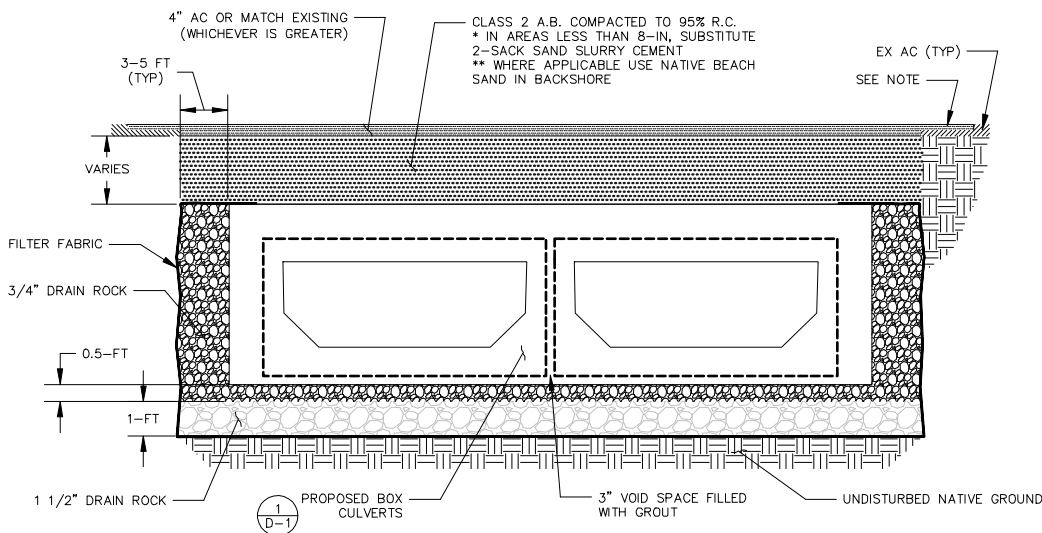
**Cardno
ENTRIX**
1046 SKI RUN BLVD.
SOUTH LAKE TAHOE, CA 96150
(530) 642-0201



PLAN VIEW

7'X2.5' DOUBLE BOX CULVERT ROCK DISSIPATER
NTS

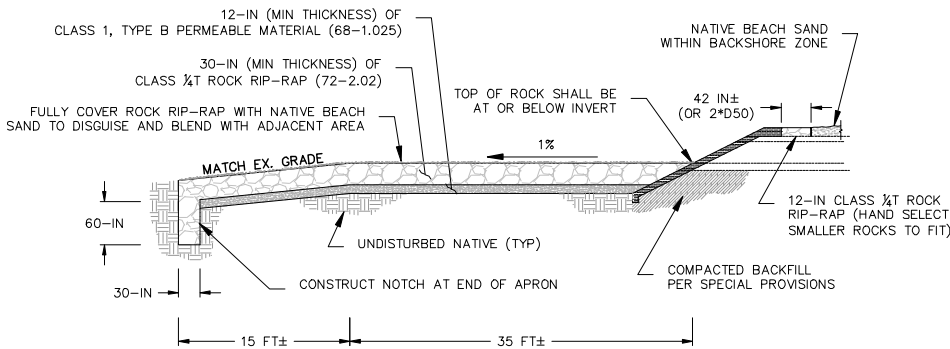
1
D-3



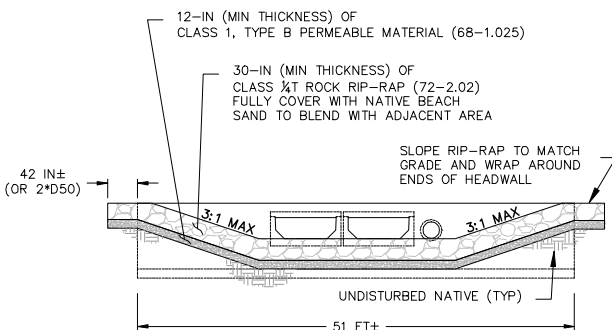
NOTE: FOLLOWING TRENCH BACKFILL AND FIRST AC PAVING LIFT, GRIND 12-IN BEYOND ORIGINAL TRENCH EXCAVATION TO CREATE A "T" CAP SECTION, FOR PLACEMENT OF FINAL 2-IN AC PAVING LIFT. MAY NOT APPLY TO SOME AREAS WITHIN THE PUBLIC ROW, SEE AC PATCH/RESTORATION AREAS AS DELINEATED ON SHEETS C-1 AND C-2.

7'X2.5' DOUBLE BOX CULVERT TRENCH DETAIL
NTS

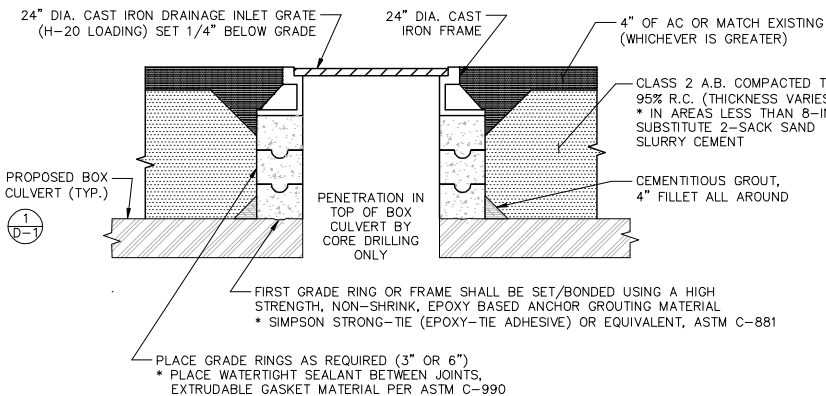
2
D-3



A-A

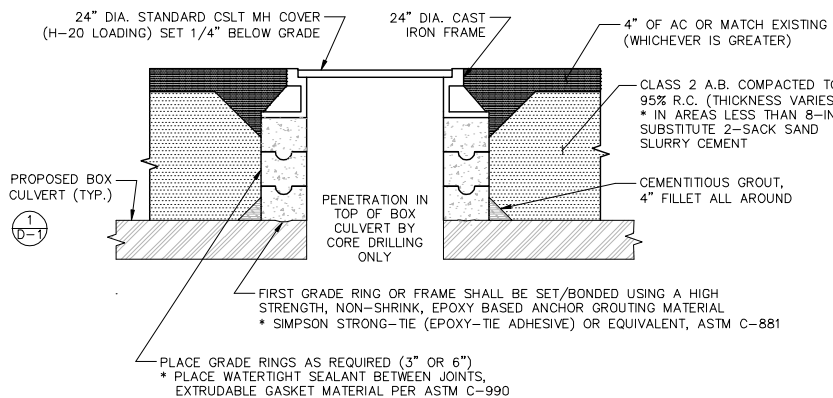


B-B



7'X2.5' DOUBLE BOX CULVERT DRAINAGE INLET
NTS

3
D-3



7'X2.5' DOUBLE BOX CULVERT MANHOLE
NTS

4
D-3



CITY OF SOUTH LAKE TAHOE
DEPARTMENT OF PUBLIC WORKS
1082 TATA LANE
SOUTH LAKE TAHOE, CA 96150
STAN B. HILL - CITY ENGINEERING MANAGER
PH: (530) 642-0600 FAX: (530) 541-3061

**BIJOU CREEK CULVERT REPLACEMENT PROJECT
DETAIL SHEET**

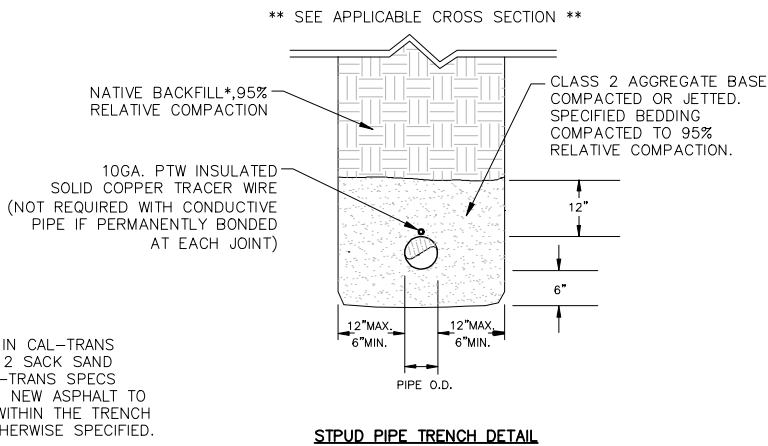
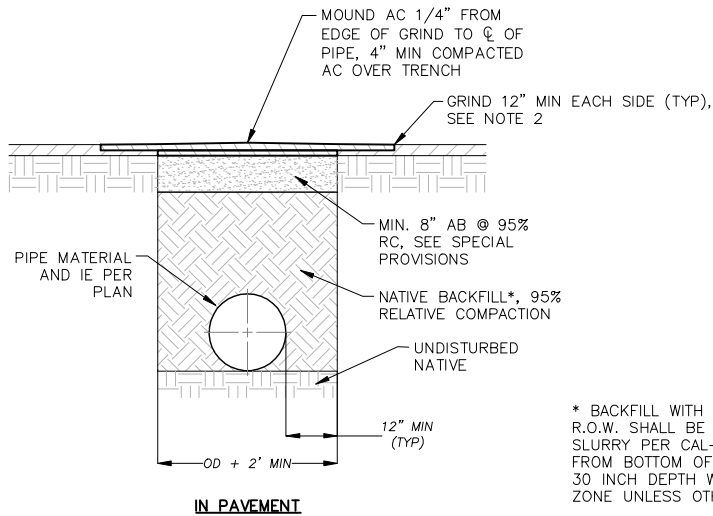
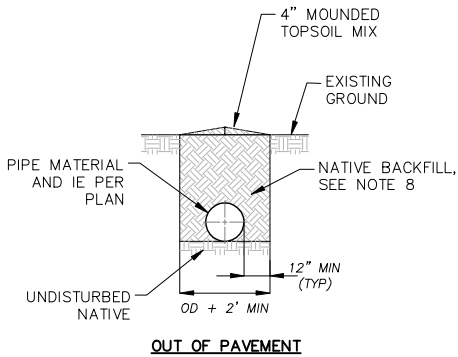
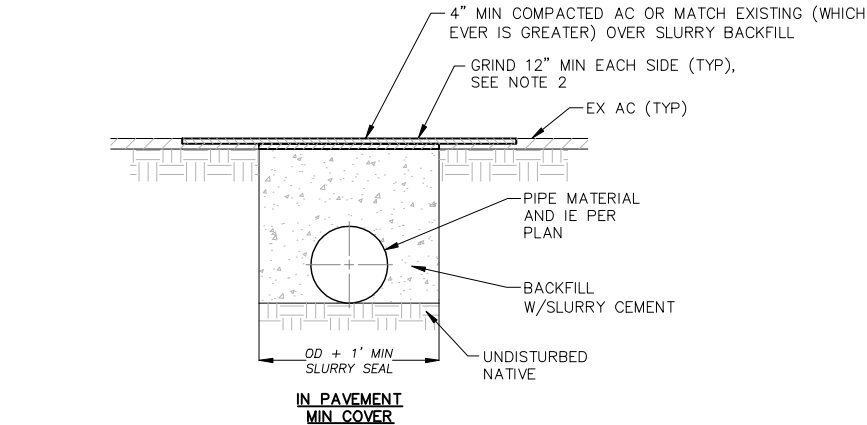
SOUTH LAKE TAHOE, CALIFORNIA

DESIGNED/DRAWN
SP/PW JD/SB/EL
CHECKED
SP
DATE
12/17/10
SCALE
AS SHOWN
JOB NO.
31141040.00
FIGURE NO.

D-3

CAUTION! ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE AND NEED TO BE POTHOLED PRIOR TO CONSTRUCTION.

*** CALL BEFORE YOU DIG ***
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1-800-227-2800
PRIOR TO ANY CONSTRUCTION WORK



NOTES:

- MINIMUM COVER* FROM CROWN OF PIPE TO FINISH GRADE SHALL BE AS FOLLOWS:
CULVERTS 18 INCHES
STORM DRAINS 18 INCHES FOR RCP --- 24 INCHES FOR HDPE
*UNLESS OTHERWISE APPROVED. FOR ADDITIONAL INFORMATION SEE CSLT STANDARD DRAWING SD64.
- GRIND PAVEMENT A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE LONGITUDINAL OR TRANSVERSE EXCAVATION AFTER TRENCH BACKFILL AND FIRST LIFT OF HOT MIX AC.
- REPLACE PAVEMENT TO EDGE OF PAVEMENT (EP) IF THE EXCAVATION IS WITHIN 3 FEET OF THE EP.
- IN WET OR ROCKY MATERIAL THE DEPTH OF THE TRENCH BEDDING SHALL BE INCREASED TO THE LARGER OF EITHER 6 IN. OR 1/4 DIA OF PIPE.
- FOR CULVERTS/STORM DRAINS THE MINIMUM DISTANCE BETWEEN THE SIDE OF THE TRENCH AND THE SIDE OF THE PIPE SHALL BE 1/2 OD OR 12", WHICHEVER IS GREATER.
- STORM DRAINS AND CULVERTS INSTALLED WITHIN FILL SHALL BE 95% RELATIVE COMPACTION UP TO A MINIMUM OF 12 INCHES ABOVE THE TOP OF PIPE.
- IN AREAS WITH MINIMUM COVER, BACKFILL ABOVE BEDDING SHALL BE CLASS 2 AGGREGATE BASE UNLESS BACKFILLING WITH CEMENT SLURRY.
- IN AREAS OF NATURAL VEGETATION OR LANDSCAPING, REMOVE TOP 12 INCHES OF MATERIAL, STOCKPILE & REPLACE ON TRENCH IN A MOUND. BACKFILL COMPACTED BETWEEN 80% AND 85% RELATIVE COMPACTION.
- ALL LANDSCAPING CONDUITS WITHIN THE ROADWAY PRISM AND/OR TRAFFIC AREAS MUST HAVE MINIMUM OF 30 INCHES COVER.
- AC PATCH SHALL BE HOTMIX ASPHALT A MINIMUM COMPACTED THICKNESS OF 4 INCHES AND PLACED IN A MINIMUM OF 2 LIFTS.
- COLD MIX ASPHALT MAY BE PLACED TEMPORARILLY, BUT MUST BE COMPLETELY REMOVED BEFORE PLACING THE PERMANENT HOT MIX ASPHALT.
- PLACE AGGREGATE BASE (AB) AT THE TOP OF THE EXCAVATION WHERE THE EXCAVATION IS WITHIN 2' OF EP OR IF AB PRESENTLY EXISTS ABOVE THE EXCAVATION. IF THE EXCAVATION IS AT THE BOTTOM OF A ROADSIDE DITCH, BEYOND A ROADSIDE DITCH, OR BEHIND A CURB, THE REQUIREMENT FOR AB CAN BE WAIVED.
- TRANSVERSE EXCAVATION ON ROADWAYS PAVED WITHIN 2 YEARS ARE NOT ALLOWED AND MUST BE BORED. LONGITUDINAL EXCAVATIONS ON ROADWAYS PAVED WITHIN 5 YEARS OR ON COLLECTOR ROADS WITH A HIGH QUALITY RIDING SURFACE REQUIRE A 2" OVERLAY WHICH CONFORMS OR A 2" GRIND AND OVERLAY OF THE TRAVEL LANE.
- STORM DRAIN BACKFILL TO BE STRUCTURAL BACKFILL.
- EXCESSIVE TRANSVERSE CUTS MAY REQUIRE A GRIND AND REPAVE OF ENTIRE TRAVEL LANE BETWEEN CUTS.
- NO SAWCUTS WILL BE ALLOWED IN WHEEL PATHS. SAWCUT LINES SHALL BE PLACED AT ROAD CL, WITHIN SHOULDER OR MIDDLE OF TRAVEL LANE, AND OUTSIDE WHEEL PATHS.
- MINIMUM PATCH WIDTH SHALL BE 3' WIDE.
- PATCH WORK SHALL NOT RESULT IN "RIBBON" STRIPS OF PAVEMENT (LESS THAN 3 FEET WIDE). EXISTING PAVEMENT WIDTHS LESS THAN 3 FEET WIDE SHALL BE REMOVED AND PAVED WITH THE PATCH WORK.

TYPICAL TRENCH DETAILS

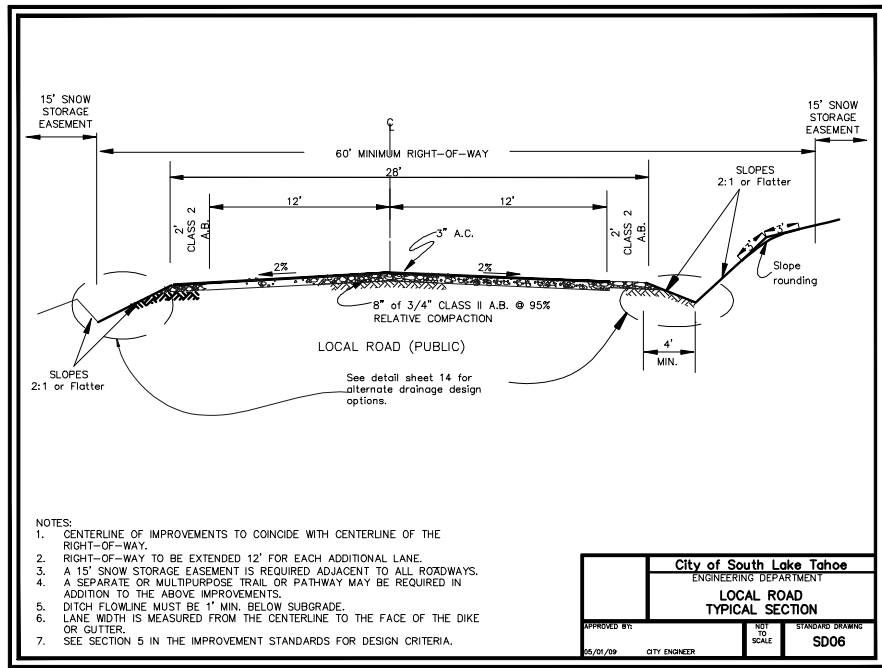
NTS

1

D-4

**90% DRAFT
NOT FOR
CONSTRUCTION**

**Cardno
ENTRIX**
1046 SKI RUN BLVD.
SOUTH LAKE TAHOE, CA 96150
(530) 642-0201



- NOTES:**
- CENTERLINE OF IMPROVEMENTS TO COINCIDE WITH CENTERLINE OF THE RIGHT-OF-WAY.
 - RIGHT-OF-WAY TO BE EXTENDED 12' FOR EACH ADDITIONAL LANE.
 - A 15' SNOW STORAGE EASEMENT IS REQUIRED ADJACENT TO ALL ROADWAYS.
 - A SEPARATE OR MULTIPURPOSE TRAIL OR PATHWAY MAY BE REQUIRED IN ADDITION TO THE ABOVE IMPROVEMENTS.
 - DITCH FLOWLINE MUST BE 1' MIN. BELOW SUBGRADE.
 - LANE WIDTH IS MEASURED FROM THE CENTERLINE TO THE FACE OF THE DIKE OR CUTTER.
 - SEE SECTION 5 IN THE IMPROVEMENT STANDARDS FOR DESIGN CRITERIA.

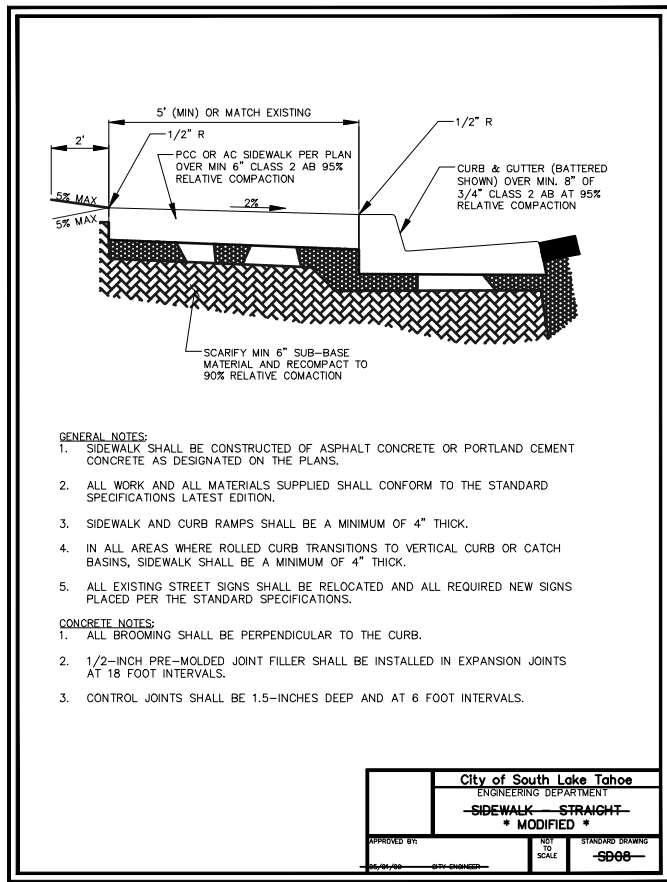
City of South Lake Tahoe	
ENGINEERING DEPARTMENT	
LOCAL ROAD	
TYPICAL SECTION	
APPROVED BY:	NOT TO SCALE
05/01/09	QTY ENGINEER
STANDARD DRAWING	
SD06	

CSLT DETAIL

NTS

2

D-4



- GENERAL NOTES:**
- SIDEWALK SHALL BE CONSTRUCTED OF ASPHALT CONCRETE OR PORTLAND CEMENT CONCRETE AS DESIGNATED ON THE PLANS.
 - ALL WORK AND ALL MATERIALS SUPPLIED SHALL CONFORM TO THE STANDARD SPECIFICATIONS LATEST EDITION.
 - SIDEWALK AND CURB RAMPS SHALL BE A MINIMUM OF 4" THICK.
 - IN ALL AREAS WHERE ROLLED CURB TRANSITIONS TO VERTICAL CURB OR CATCH BASINS, SIDEWALK SHALL BE A MINIMUM OF 4" THICK.
 - ALL EXISTING STREET SIGNS SHALL BE RELOCATED AND ALL REQUIRED NEW SIGNS PLACED PER THE STANDARD SPECIFICATIONS.

- CONCRETE NOTES:**
- ALL BROOMING SHALL BE PERPENDICULAR TO THE CURB.
 - 1/2-INCH PRE-MOLDED JOINT FILLER SHALL BE INSTALLED IN EXPANSION JOINTS AT 18 FOOT INTERVALS.
 - CONTROL JOINTS SHALL BE 1.5-INCHES DEEP AND AT 6 FOOT INTERVALS.

City of South Lake Tahoe	
ENGINEERING DEPARTMENT	
SIDEWALK - STRAIGHT -	
* MODIFIED *	
APPROVED BY:	NOT TO SCALE
05/01/09	QTY ENGINEER
STANDARD DRAWING	
SD06	

CSLT DETAIL

NTS

3

D-4

**BIJOU CREEK CULVERT REPLACEMENT PROJECT
DETAIL SHEET**

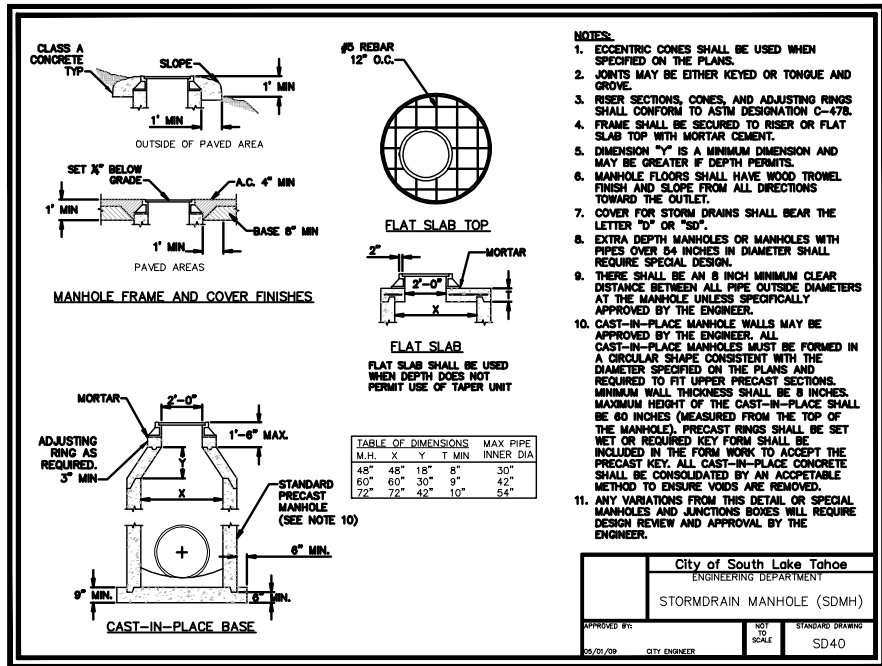
SOUTH LAKE TAHOE, CALIFORNIA

DESIGNED/DRAWN
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CHECKED
SP
DATE
12/17/10
SCALE
AS SHOWN
JOB NO.
31141040.00
FIGURE NO.

D-4

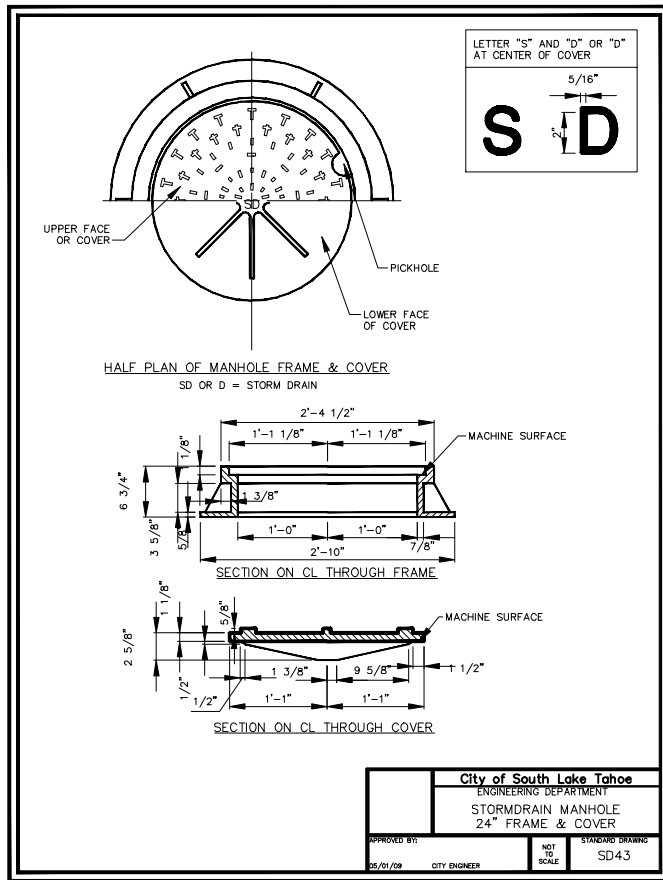
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CSLT DETAIL
NTS

1
D-5

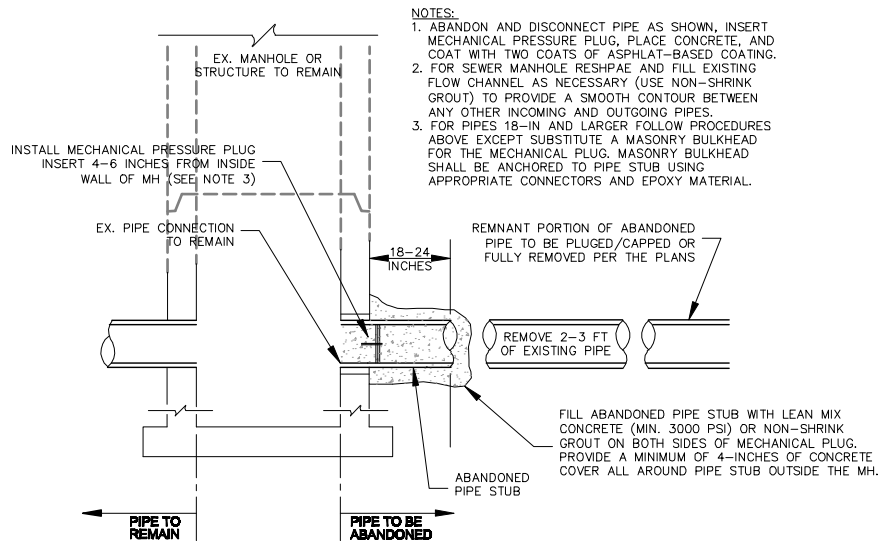


CSLT DETAIL
NTS

2
D-5

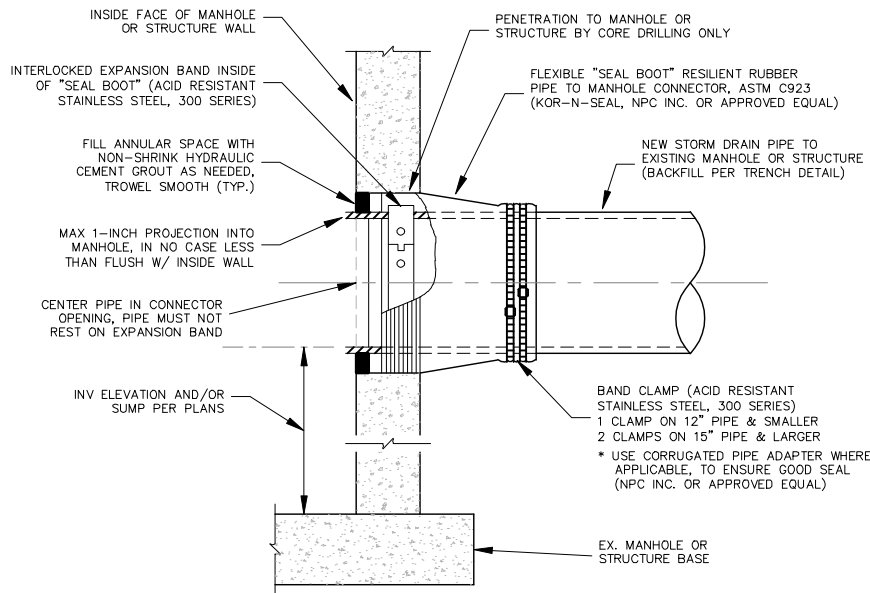
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CONSTRUCTION**

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ENTRIX**
1046 SKI RUN BLVD.
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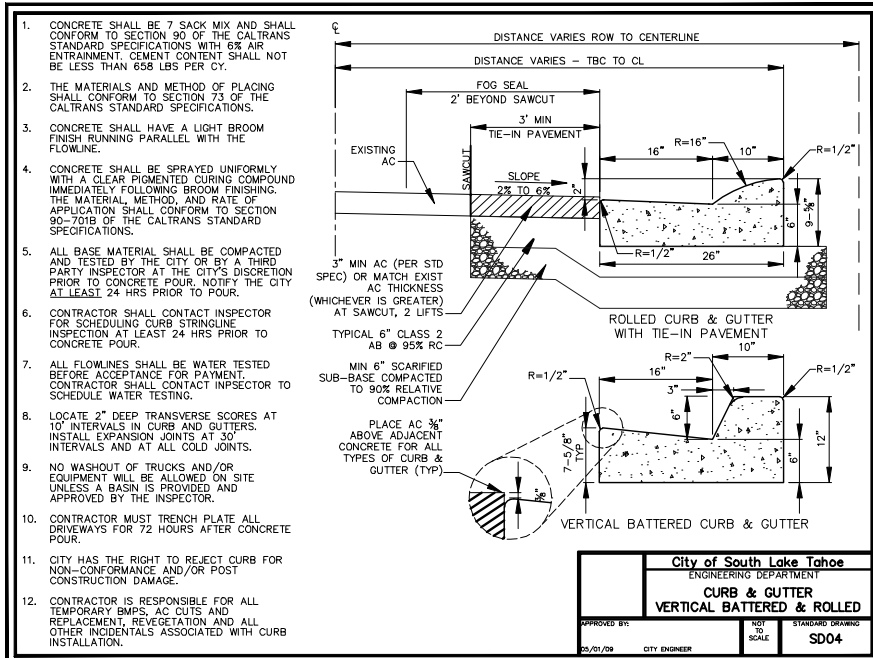
PLUG/CAP EX. SD PIPE TO STRUCTURE PENETRATION
NTS

3
D-5



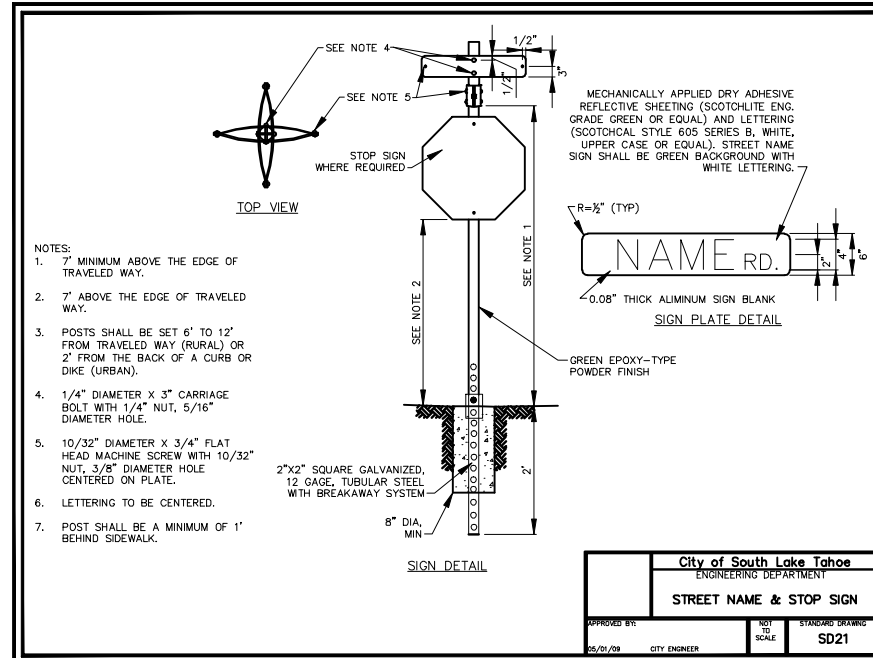
SD PIPE TO EX. STRUCTURE CONNECTION
NTS

4
D-5



CSLT DETAIL
NTS

5
D-5



CSLT DETAIL
NTS

6
D-5

**BIJOU CREEK CULVERT REPLACEMENT PROJECT
DETAIL SHEET**

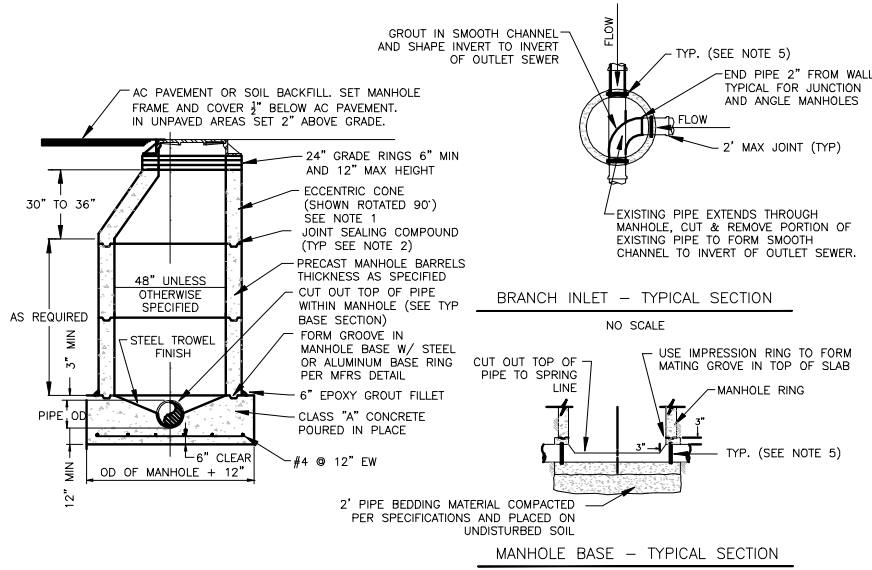
SOUTH LAKE TAHOE, CALIFORNIA

**DESIGNED/DRAWN
SP/PW JD/SB/EL**
**CHECKED
BP**
**DATE
12/17/10**
**SCALE
AS SHOWN**
**JOB NO.
31141040.00**
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D-5

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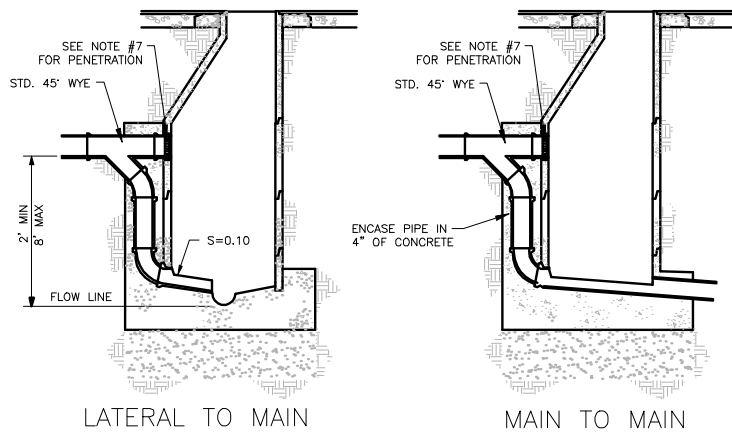
NOTES:

- 1) LOCATE MANHOLE COVER ON DOWNSTREAM SIDE OF MANHOLE. 24" MANHOLE FRAME AND COVER TO BE SUPPLIED BY DISTRICT.
- 2) JOINT SEALING COMPOUND SHALL BE: "RAM-NEK" BY K.T. SNYDER COMPANY; OR APPROVED EQUAL.
- 3) FOR SHALLOW MANHOLES, THE CONTRACTOR SHALL SUBSTITUTE A PRE-CAST CONCRETE MANHOLE CAP, DESIGNED FOR H-20 TRAFFIC LOADING, IN LIEU OF THE ECCENTRIC CONE. THE 24-INCH OPENING SHALL BE LOCATED IN THE CENTER OF THE MANHOLE CAP. PROVIDE A DESIGN SUBMITTAL, PREPARED AND SEALED BY A QUALIFIED REGISTERED ENGINEER, DEMONSTRATING COMPLIANCE WITH REQUIRED LOADING CRITERIA.
- 4) FOR MANHOLE PENETRATIONS MAKE TRANSITION FROM DIFFERING PIPE MATERIALS AT THE CENTER OF THE MANHOLE, PROVIDING A 12" LONG "U" SHAPED OPEN CHANNEL TRANSITION SECTION OF HAND FORMED CONCRETE TO PROVIDE A UNIFORM TRANSITION BETWEEN THE TWO PIPE MATERIALS.
- 5) ALL MANHOLE PIPE PENETRATIONS SHALL BE PROVIDED WITH A FLANGE OR OTHER SUBSTANTIAL DEVICE WELDED ONTO OR CAST INTEGRALLY WITH THE PIPE. SUCH DEVICE SHALL BE SUBJECT TO THE ENGINEER'S REVIEW AND SHALL BE ADEQUATE TO RESTRAIN LATERAL MOVEMENT DUE TO TEMPERATURE DIFFERENTIALS IN THE PIPE. FOR MANHOLES WITH PVC PIPE CONNECTIONS, FOR A WATERTIGHT SEAL TO BE ACHIEVED THE CONTRACTOR SHALL UTILIZE A FLEXIBLE ELASTOMERIC GASKET MATERIAL CAPABLE OF ACCOMMODATING THE DIFFERENTIAL THERMAL EXPANSION AND CONTRACTION BETWEEN THE CONCRETE AND PVC PIPE.
- 6) BASE OF MANHOLE SHOULD BE SMOOTH AND CONTOURED TO SLOPE TOWARDS PIPE.

STPUD SEWER MANHOLE

NTS

1
D-6



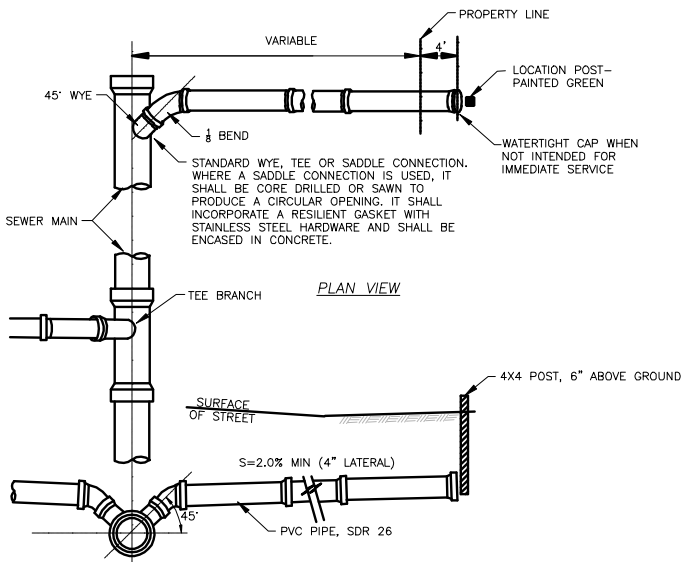
NOTES:

- 1) DROP MANHOLES ARE TO BE USED ON ALL SANITARY SEWERS WITH MORE THAN TWO FEET VERTICAL DROP AT MANHOLE (DROP SHALL NOT EXCEED EIGHT FEET AT ANY MANHOLE).
- 2) MAINS SHALL BE SLOPED TO FALL AT LEAST 0.1 FEET ACROSS MANHOLE SECTIONS.
- 3) ALL OTHER DIMENSIONS, NOTES AND REQUIREMENTS AS SHOWN ON STANDARD MANHOLE DETAIL SHALL APPLY TO DROP MANHOLES.
- 4) DIMENSIONS NOT SHOWN ARE GIVEN ON STANDARD MANHOLE DETAIL.
- 5) ALL JOINTS AND CONNECTIONS TO NEW OR EXISTING MANHOLES SHALL BE WATERTIGHT.
- 6) ALL JOINTS SHALL BE SEALED WITH: "RAM-NEK" BY K.T. SNYDER COMPANY OR APPROVED EQUAL.
- 7) PENETRATIONS AT WYE SHALL HAVE LINKSEAL OR APPROVED EQUAL; PENETRATION SHALL BE TROWEL SMOOTH INSIDE AND OUT WITH NON-SHRINK GROUT OVER LINKSEAL.

STPUD SEWER DROP MANHOLE

NTS

2
D-6



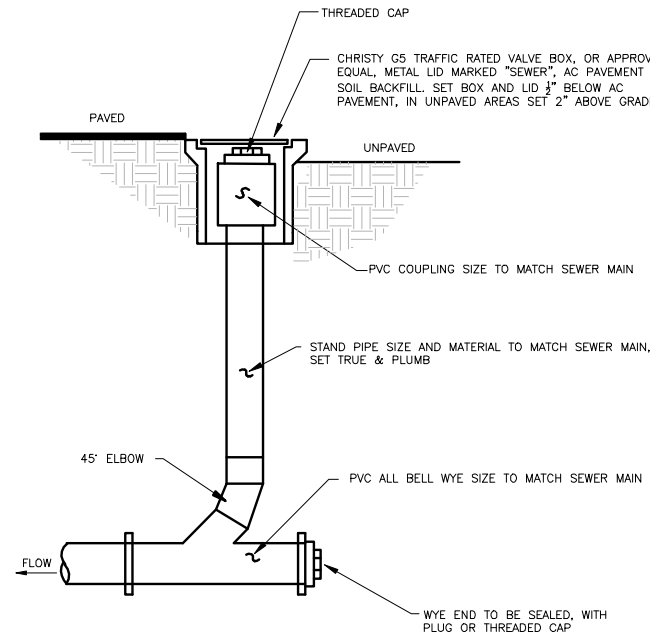
NOTES:

- 1) ALL JOINTS AND CONNECTIONS SHALL BE WATERTIGHT.
- 2) ALL BUILDING SEWERS SHALL HAVE A MINIMUM GROUND COVER OF THREE FEET (3') OVER THE TOP OF PIPE.
- 3) ALL LATERALS 6" AND LARGER SHALL BE CONNECTED TO SEWER MAIN USING A STANDARD MANHOLE.

STPUD SEWER LATERAL CONNECTION

NTS

3
D-6



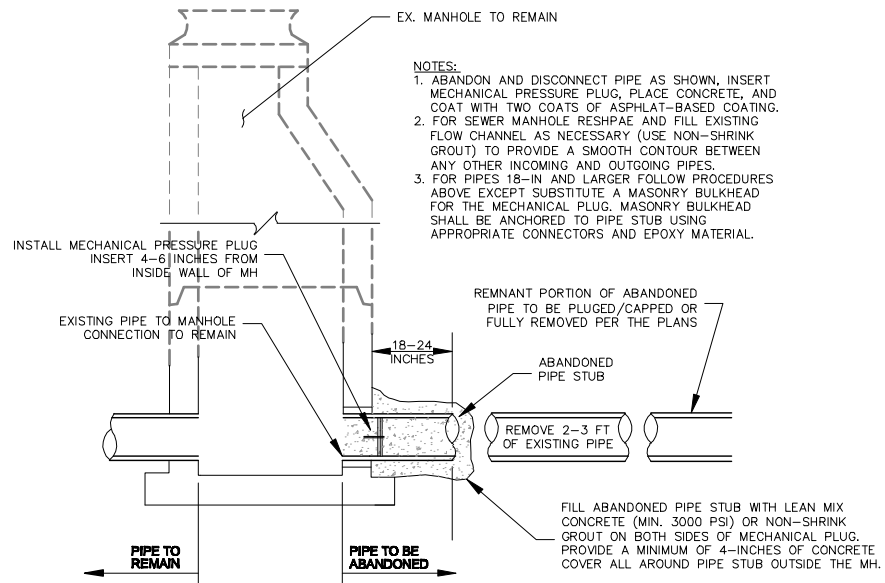
STPUD SEWER MAIN FLUSH INLET

NTS

4
D-6

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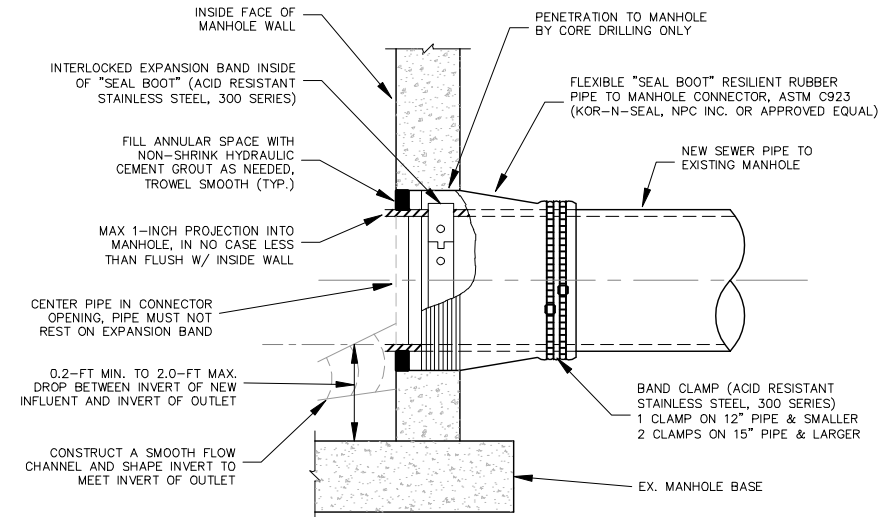
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PLUG/CAP EX. PIPE TO MANHOLE PENETRATION

NTS

5
D-6



PIPE TO EX. MANHOLE CONNECTION

NTS

6
D-6



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1082 TATA LANE
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STAN B. HILL - CITY ENGINEERING MANAGER
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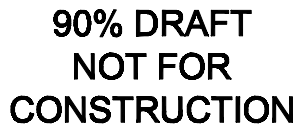
**BIJOU CREEK CULVERT REPLACEMENT PROJECT
DETAIL SHEET**









SOUTH LAKE TAHOE, CALIFORNIA

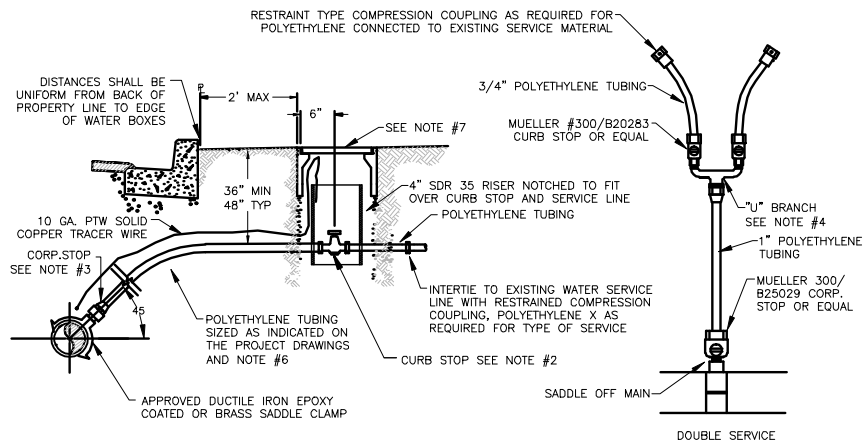
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JOB NO.
31141040.00
FIGURE NO.

D-6

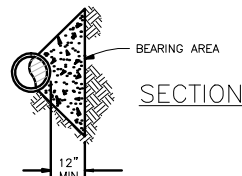
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PRIOR TO ANY CONSTRUCTION WORK



TYPE OF FITTING	90° ELBOW	5° ELBOW	22.5° ELBOW	11.25° ELBOW	TEE BRANCH	TEE W/ PLUG	CROSS W/ PLUG	CROSS W/ PLUGS
TYPICAL INSTALLATION								
SIZE OF PIPE	6"	4	4	2	2	4	4	4
	8"	10	6	3	3	10	10	10
	10"	12	8	4	4	15	15	15
	12"	16	10	6	6	20	20	20
	14"	21	12	6	6	22	21	22
	16"	27	15	8	8	22	27	27
	18"	45	25	13	13	32	45	45
	24"	65	35	18	18	45	65	65



- 1) JOINTS, FLANGE BOLTS AND FACE OF PLUGS TO BE KEPT CLEAR OF CONCRETE.
- 2) BLOCKS MUST BE POURED AGAINST UNDISTURBED SOIL.
- 3) THRUST BLOCKS TO BE CONSTRUCTED OF CLASS 423-C-2500 OR BETTER P.C.C.
- 4) THRUST BLOCKS AREA IS BASED ON TEST PRESSURE OF 150 PSI AND A HORIZONTAL SOIL BEARING STRENGTH OF 1500 PSI.
- 5) NUTS AND BOLTS ON ALL MJ FITTINGS SHALL BE PAINTED WITH TWO COATS OF KOPPERS 505, TNEMEC 46-450*, AMERON OR EQUAL, 15 MILS EACH COAT.



- 1) METERS USED FOR DOMESTIC WATER SERVICE SHALL BE SENSUS SR TR/PL REGISTERING IN 100 CF OR APPROVED EQUAL. METERS USED FOR FIRE LINES SHALL BE SENSUS W-160 DRS TURBO-METER REGISTERING IN 100 CF. ONE AND ONE HALF INCH (1 1/2") METERS SHALL BE INSTALLED USING FORD RESETTER MODEL VBB46-HB. FOR TWO INCH (2") METERS FORD MODEL VBB47-HB OR APPROVED EQUAL SHALL BE USED.
- 2) METER SHALL BE INSTALLED AT A DEPTH OF NOT LESS THAN EIGHTEEN INCHES (18") AND NOT MORE THAN TWENTY FOUR INCHES (24") MEASURED FROM THE TOP OF THE METER BOX TO THE BOTTOM OF THE METER (SEE DETAIL).
- 3) REQUIRED INSULATED COUPLER SHALL BE LOCATED IMMEDIATELY DOWNSTREAM OF RESETTERS OR IF RESETTERS ARE NOT USED, IMMEDIATELY DOWNSTREAM OF METER AND BYPASS.
- 4) METER BOX IN NON-TRAFFIC AREAS SHALL BE "CHRISTY" MODEL B36 WITH METAL LID OR APPROVED EQUIVALENT INSTALLED NO LESS THAN TWO INCHES (2") ABOVE FINISHED GRADE. BOXES LOCATED IN OR NEAR TRAFFIC AREAS SHALL BE H20 LOAD RATED INSTALLED A HALF INCH (1/2") BELOW FINISHED GRADE. PROVIDE THREE INCHES (3") RIGID INSULATION ABOVE METER IN BOX.
- 5) CONTRACTOR SHALL PROVIDE TWO INCH (2") HOLE CENTERED IN METER BOX LID AND INSTALL TR/PL READER MOUNT.
- 6) USE OF TWO OR MORE RESETTERS IN A STACKED ARRANGEMENT REQUIRES THE USE OF A RIGID METAL SUPPORT DRIVEN EIGHTEEN INCHES (18") INTO THE SOIL BELOW THE METER. SUPPORT MUST BE TIED WITH PERMANENT TIES AT THREE EVENLY SPACED LOCATIONS TO THE RESETTER OR PIPING.
- 7) METER BOX SHALL BE WITHIN EIGHTEEN INCHES (18") OF DISTRICT SERVICE VALVE BOX.
- 8) BRONZE BOLTS AT METER FLANGES ONLY.

- 1) ALL SERVICE CONNECTIONS SHALL CONFORM TO AWWA C-800-84 AND BE INSTALLED FROM THE NEW MAIN TO EACH EXISTING SERVICE LINE.
- 2) NEW CURB-STOP SHALL BE SIZED AS INDICATED ON PLANS AND BE MUELLER #300/B20283 OR APPROVED EQUAL.
- 3) CORPORATION STOP SHALL BE SIZED AS INDICATED ON PLANS AND BE MUELLER #300/B25029 OR APPROVED EQUAL FOR 3"-1". MUELLER #300/25028 OR APPROVED EQUAL FOR 1 1/2"-2".
- 4) SINGLE HOUSE SERVICE SHALL BE 3/4" POLYETHYLENE WITH 3/4" FITTINGS. DOUBLE HOUSE SERVICE SHALL BE 1" POLYETHYLENE TO FORD #U68-43 SPACING "U" BRANCH OR EQUAL WITH TWO 3/4" CURB-STOPS AND SERVICE CONNECTIONS.
- 5) ALL WATER SERVICES SHALL HAVE A HAND-TAMPED SAND BEDDING 9" ABOVE AND BENEATH THE TUBING AND SHALL HAVE 6" MINIMUM CLEARANCE ON EACH SIDE.
- 6) ALL WATER SERVICE SHALL BE POLYETHYLENE 200 PSI CLASS IRON PIPE SIZE FOR 3/4"-1". COPPER TUBE SIZE FOR 1 1/2"-2". PIPE STIFFENER INSERTS TO BE USED AT ALL CONNECTIONS.
- 7) WATER VALVE BOX SHALL BE CHRISTY G5 FOR SINGLE SERVICE, AND CHRISTY B9 FOR DOUBLE SERVICE OR APPROVED EQUAL WITH A METAL LID MARKED "WATER".
- 8) ALL CORP-STOPS, CURB-STOPS AND POLYETHYLENE SERVICE LINES SHALL BE DISINFECTED AND HYDROSTATIC TESTED ALONG WITH THE NEW MAIN PRIOR TO BEING PLACED INTO SERVICE.
- 9) ALL TUBING CONNECTIONS SHALL BE THE COMPRESSION TYPE; MUELLER OR APPROVED EQUAL.
- 10) 10 GA. PTW SOLID COPPER TRACER WIRE SHALL BE INSTALLED FROM THE NEW MAIN ALONG NEW SERVICE LINE TO THE VALVE BOX REGARDLESS OF NEW WATER MAIN TYPE. ON CONDUCTIVE TYPE PIPELINES THE TRACER WIRE SHALL BE CLAMPED USING APPROVED STAINLESS STEEL CLAMPS.

$$\frac{1}{D-7}$$
$$\frac{2}{0-7}$$

3

Diagram illustrating the crossing of a sanitary sewer or storm sewer line over a water main. The sewer line is shown crossing the water main at an angle. Labels include: "SANITARY SEWER OR STORM SEWER LINE", "CROSSING ANGLE", "10' MIN. TYP.", and "IF THERE ARE NO PROTECTION RAILS".

WATER MAIN IS ABOVE

12" MIN

10' MIN TYP.

12" MIN

IF THERE ARE PIPE JOINTS IN THIS AREA, SEE NOTE FOR WATER MAIN PROTECTION REQUIREMENTS.

WATER MAIN IS BELOW

WHERE THE WATER MAIN IS BELOW THE SEWER LINE, WHERE THE WATER MAIN IS LESS THAN 18-INCHES CLEAR ABOVE THE SEWER LINE, OR WHERE A 10-FOOT HORIZONTAL SEPARATION CANNOT BE MAINTAINED, THE AREA OF CROSSING MUST BE CONSTRUCTED IN SUCH A MANNER THAT:

- A) THE WATER MAIN IS CONSTRUCTED SUCH THAT THERE ARE NO PIPE JOINTS FOR A DISTANCE OF AT LEAST 10-FOOT ON EACH SIDE OF THE POINT OF CROSSING; OR;
- B) THE WATER MAIN OR SEWER MAIN IS TOTALLY ENCASED IN AT LEAST 4-INCHES OF 2-SACK SAND CEMENT SLOUING FOR A DISTANCE OF AT LEAST 10-FOOT ON EACH SIDE OF THE POINT OF CROSSING; OR;
- C) THE WATER MAIN OR SEWER MAIN IS INSTALLED IN A PIPE SLEEVE THAT EXTENDS, WITHOUT JOINTS, AT LEAST 10-FOOT ON EACH SIDE OF THE POINT OF CROSSING.

4

SOUTH LAKE TAHOE, CALIFORNIA

DESIGNED/DRAWN	SP/PW JD/SB/EL
CHECKED	SP
DATE	12/17/10
SCALE	AS SHOWN
JOB NO.	31141040.00
FIGURE NO.	

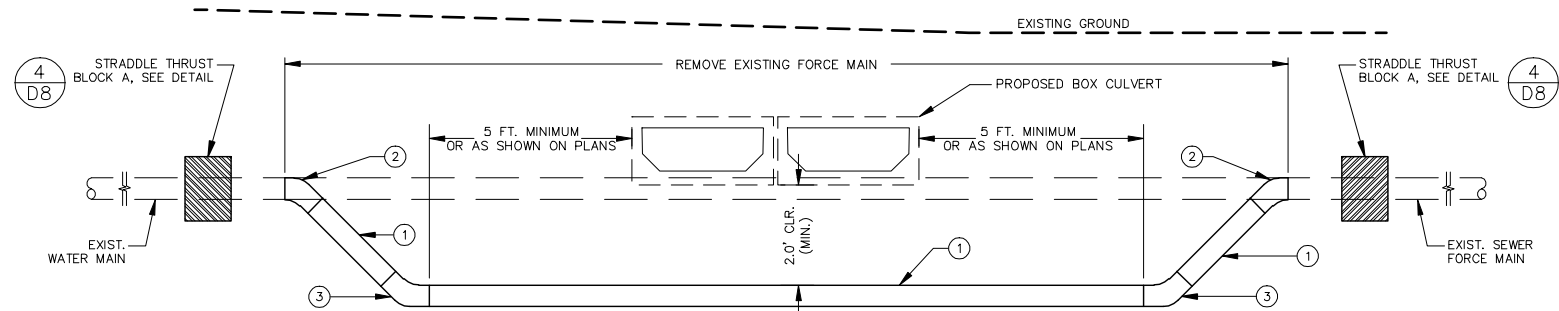
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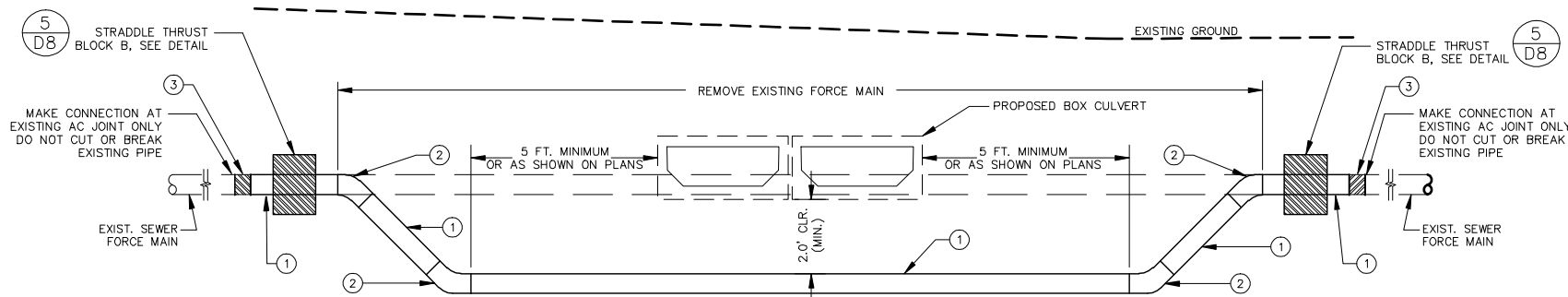
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SOUTH LAKE TAHOE, CA 96150
(530) 542-0201



- 16" DIA. - PVC C900 (DR18) OR DUCTILE IRON (CLASS 250) RESTRAINED JOINT SEWER FORCE MAIN PIPE (US PIPE TYTON JOINT WITH FIELD LOK 350 GASKET OR APPROVED EQUAL)
- 45" DUCTILE IRON RESTRAINED ELBOW (MJxMJ FITTING WITH EBAA MEGALUG SERIES 1100 MJ RESTRAINTS, OR APPROVED EQUAL)
- 45" DUCTILE IRON RESTRAINED ELBOW (US PIPE TYTON FITTING WITH FIELD LOK 350 GASKETS OR APPROVED EQUAL)

STPUD 16" STEEL SS FORCE MAIN RELOCATION
NTS

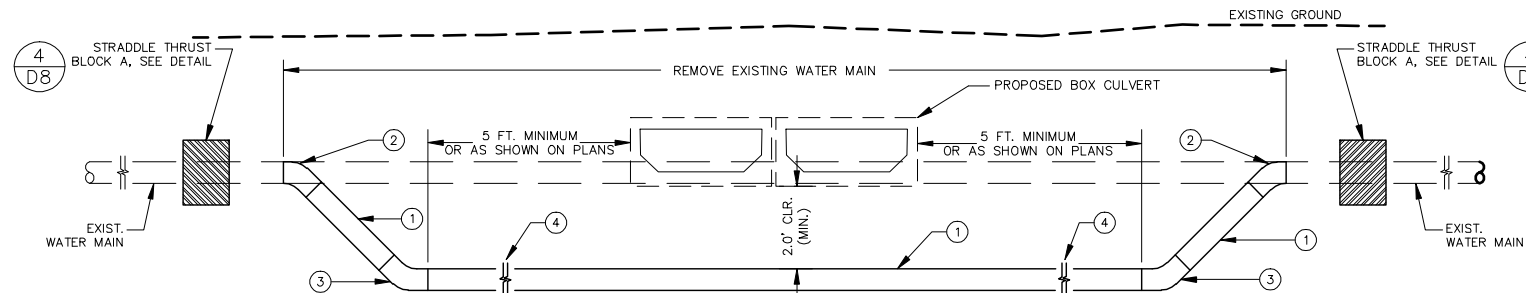
1
D-8



- 12" DIA. - PVC C900 (DR18) OR DUCTILE IRON (CLASS 350) RESTRAINED JOINT SEWER FORCE MAIN PIPE (US PIPE TYTON JOINT WITH FIELD LOK 350 GASKET OR APPROVED EQUAL)
- 45" DUCTILE IRON RESTRAINED ELBOW (US PIPE TRIM TYTON FITTING WITH FIELD LOK 350 GASKETS OR APPROVED EQUAL)
- DRESSER STYLE COUPLING REQUIRED AT BOTH ENDS TO TIE-IN PROPOSED PIPE WITH EX. AC SEWER PIPE, PER THE COUPLING AND PIPE MANUFACTURER'S DIRECTIONS

STPUD 12" AC SS FORCE MAIN RELOCATION
NTS

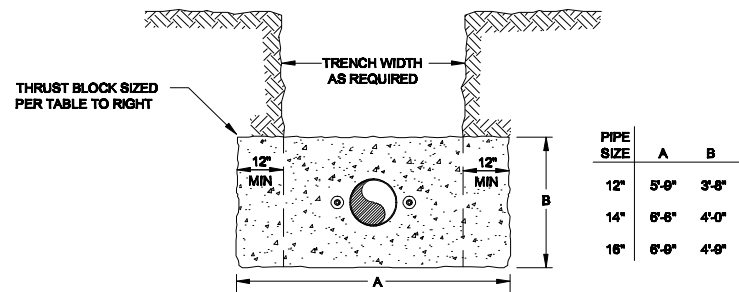
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D-8



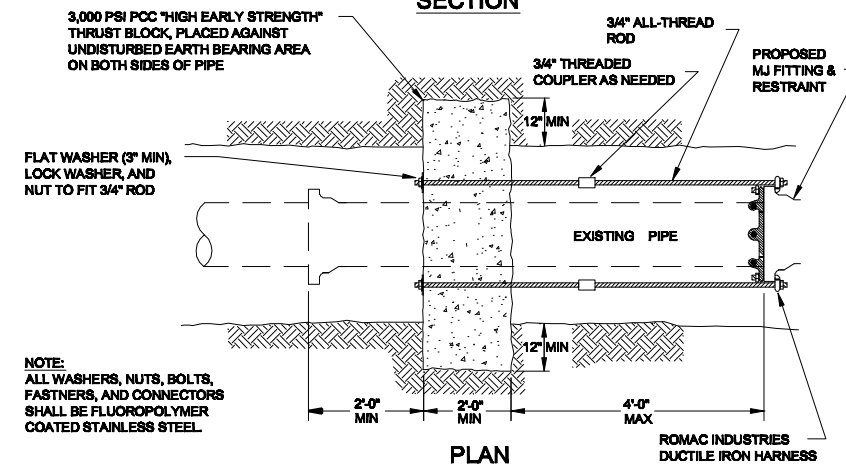
- 14" DIA. - PVC C900 (DR18) OR DUCTILE IRON (CLASS 250) RESTRAINED JOINT WATER MAIN PIPE (US PIPE TYTON JOINT WITH FIELD LOK 350 GASKET OR APPROVED EQUAL)
- 45" DUCTILE IRON RESTRAINED ELBOW (MJxMJ FITTING WITH EBAA MEGALUG SERIES 2000PV MJ RESTRAINT ON EX. PVC SIDE AND SERIES 1100 MJ RESTRAINT ON DIP SIDE, OR APPROVED EQUAL)
- VERTICAL BEND, 45" DUCTILE IRON RESTRAINED ELBOW (US PIPE TYTON FITTING WITH FIELD LOK 350 GASKETS OR APPROVED EQUAL)
- HORIZONTAL BEND, (MATCH EXISTING ANGLE) DUCTILE IRON RESTRAINED ELBOW (US PIPE TYTON FITTING WITH FIELD LOK 350 GASKETS OR APPROVED EQUAL)

STPUD 14" WATER MAIN RELOCATION
NTS

3
D-8



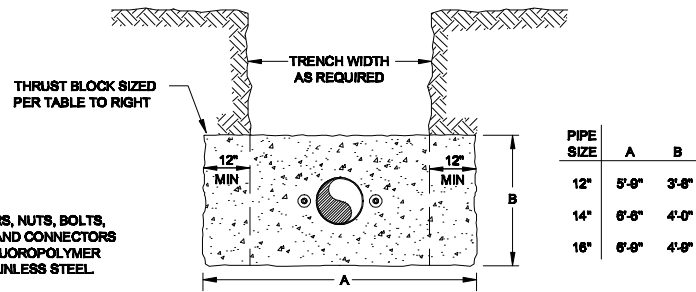
PIPE SIZE	A	B
12"	5'-0"	3'-6"
14"	6'-6"	4'-0"
16"	6'-6"	4'-6"



NOTE:
ALL WASHERS, NUTS, BOLTS,
FASTENERS, AND CONNECTORS
SHALL BE FLUOROPOLYMER
COATED STAINLESS STEEL

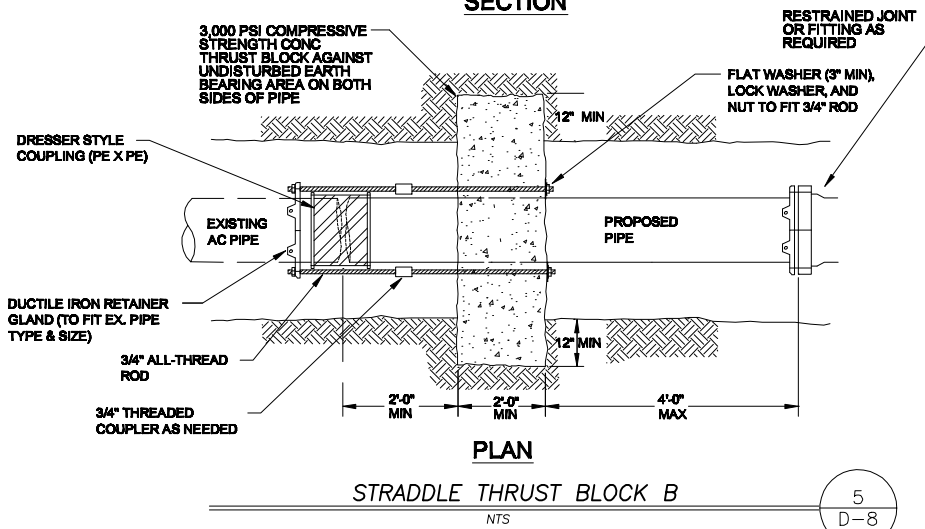
STRADDLE THRUST BLOCK A
NTS

4
D-8



NOTE:
ALL WASHERS, NUTS, BOLTS,
FASTENERS, AND CONNECTORS
SHALL BE FLUOROPOLYMER
COATED STAINLESS STEEL

SECTION



DRESSER STYLE
COUPLING (PE X PE)

DUCTILE IRON RETAINER
GLAND (TO FIT EX. PIPE
TYPE & SIZE)

3/4" ALL-THREAD
ROD

3/4" THREADED
COUPLER AS NEEDED

STRADDLE THRUST BLOCK B
NTS

5
D-8

CITY OF SOUTH LAKE TAHOE
DEPARTMENT OF PUBLIC WORKS
1082 TATA LANE
SOUTH LAKE TAHOE, CA 96150
STAN B. HILL - CITY ENGINEERING MANAGER
PH: (530) 542-0600 FAX: (530) 541-3061

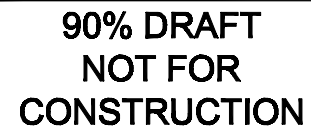
**BIJOU CREEK CULVERT REPLACEMENT PROJECT
DETAIL SHEET**

SOUTH LAKE TAHOE, CALIFORNIA

DESIGNED/DRAWN
SP/PW JDS/SEL
CHECKED
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DATE
12/17/10
SCALE
AS SHOWN
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31141040.00
FIGURE NO.

D-8

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SOUTH LAKE TAHOE, CALIFORNIA

**BIJOU CREEK CULVERT REPLACEMENT PROJECT
DETAIL SHEET**

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SP	
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12/17/10	
SCALE	
AS SHOWN	
JOB NO.	
31141040.00	
FIGURE NO.	

D-9

30 OF 35



NOTE:

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DEPARTMENT OF PUBLIC WORKS
1082 TATA LANE
SOUTH LAKE TAHOE, CA 96150
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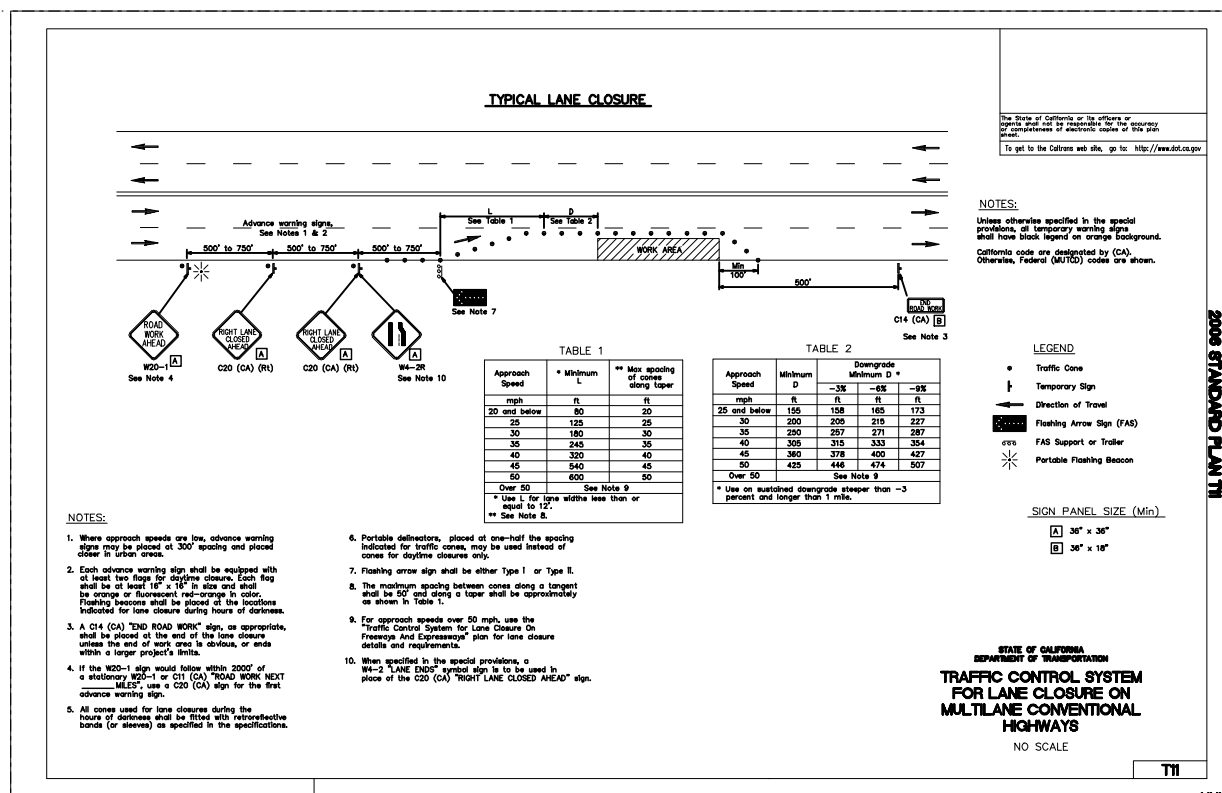
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BIJOU CREEK CULVERT REPLACEMENT PROJECT
DETAIL SHEET
SOUTH LAKE TAHOE, CALIFORNIA

DESIGNED/DRAWN
SP/PPW J.D./SSEL
CHECKED
SP
DATE
12/17/10
SCALE
AS SHOWN
JOB NO.
31141040.00
FIGURE NO.

D-10

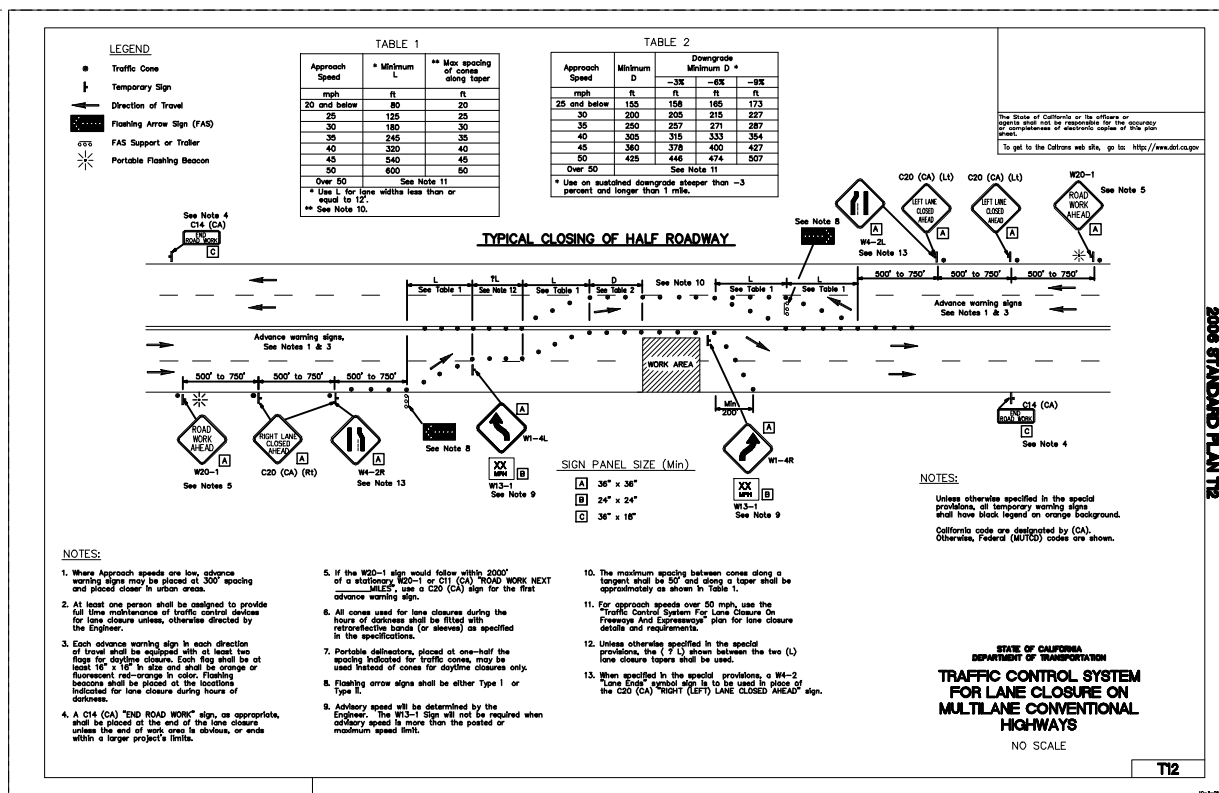
31 OF 35



CALTRANS TEMPORARY TRAFFIC CONTROL SYSTEM

NTS

1
D-10



CALTRANS TEMPORARY TRAFFIC CONTROL SYSTEM

NTS

2
D-10

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CITY OF SOUTH LAKE TAHOE
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SOUTH LAKE TAHOE, CA 96150
STAN B. HILL - CITY ENGINEERING MANAGER
PH: (530) 542-0080 FAX: (530) 541-3051

SEAL

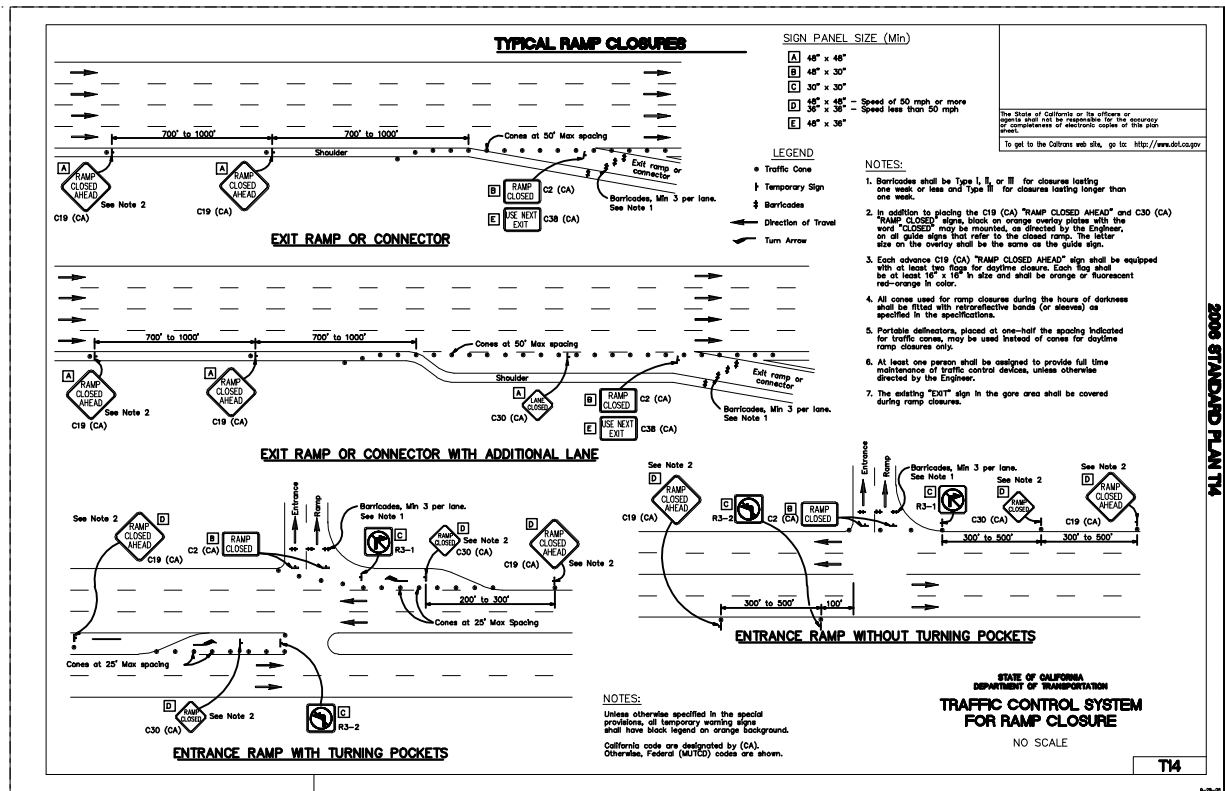
BIJOU CREEK CULVERT REPLACEMENT PROJECT
DETAIL SHEET

SOUTH LAKE TAHOE, CALIFORNIA

DESIGNED/DRAWN
SP/PW JD/SBEL
CHECKED
SP
DATE
12/17/10
SCALE
AS SHOWN
JOB NO.
31141040.00
FIGURE NO.

D-11

32 OF 35



CALTRANS TEMPORARY TRAFFIC CONTROL SYSTEM

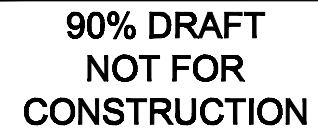
NTS

1
D-11

NOTE:

- CALTRANS DETAILS (2006, US CUSTOMARY UNITS) AS PROVIDED ARE FOR REFERENCE ONLY.
- CONTRACTOR IS RESPONSIBLE TO OBTAIN AND USE CURRENT VERSION AS PUBLISHED IN THE CALTRANS STANDARD PLANS BOOK.

*** CALL BEFORE YOU DIG ***
CONTACT UNDERGROUND SERVICE ALERT (USA)
1-800-227-2800
PRIOR TO ANY CONSTRUCTION WORK

[illegible]

CITY OF SOUTH LAKE TAHOE
 DEPARTMENT OF PUBLIC WORKS
 1062 YATA LANE
 SOUTH LAKE TAHOE, CA 96150
 STAN B. HILL - CITY ENGINEERING MANAGER
 PH: (530) 542-8030 FAX: (530) 541-3051

SEAL

**BIJOU CREEK CULVERT REPLACEMENT PROJECT
DETAIL SHEET**

SOUTH LAKE TAHOE, CALIFORNIA

DESIGNED/DRAWN
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CHECKED
SP
DATE
12/17/10
SCALE
AS SHOWN
JOB NO.
31141040.00
FIGURE NO.

D-12

33 OF 35



NTS

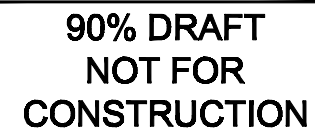
1
D-12

NTS

$$\frac{2}{D-12}$$

NOTE:
1) CALTRANS DETAILS (2006, US CUSTOMARY UNITS) AS PROVIDED ARE FOR REFERENCE ONLY.
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*** CALL BEFORE YOU DIG ***
CONTACT UNDERGROUND SERVICE ALERT (USA)
1-800-22T-2000
PRIOR TO ANY CONSTRUCTION WORK

[illegible]

 **CITY OF SOUTH LAKE TAHOE**
DEPARTMENT OF PUBLIC WORKS
1062 TATA LANE
SOUTH LAKE TAHOE, CA 96150
TITAN B. HILL - CITY ENGINEERING MANAGER
PH: (530) 542-9030 FAX: (530) 541-3051

SOUTH LAKE TAHOE, CALIFORNIA

BIJOU CREEK CULVERT REPLACEMENT PROJECT
DETAIL SHEET

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CHECKED
SP
DATE
12/17/10
SCALE
AS SHOWN
JOB NO.
31141040.00
FIGURE NO.

D-13

34 OF 35



NTS

1
D-13

NT

2
D-13

NOTE:
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CAUTION! ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE AND NEED TO BE POTHOLED PRIOR TO CONSTRUCTION.

*** CALL BEFORE YOU DIG ***
CONTACT UNDERGROUND SERVICE ALERT (USA)
1-800-227-2800
PRIOR TO ANY CONSTRUCTION WORK

90% DRAFT
NOT FOR
CONSTRUCTION

Cardno
ENTRIX
1046 SKI RUN BLVD.
SOUTH LAKE TAHOE, CA 96150
(530) 542-0201



CITY OF SOUTH LAKE TAHOE
DEPARTMENT OF PUBLIC WORKS
1082 TATA LANE
SOUTH LAKE TAHOE, CA 96150
STAN B. HILL - CITY ENGINEERING MANAGER
PH: (530) 542-0080 FAX: (530) 541-3051

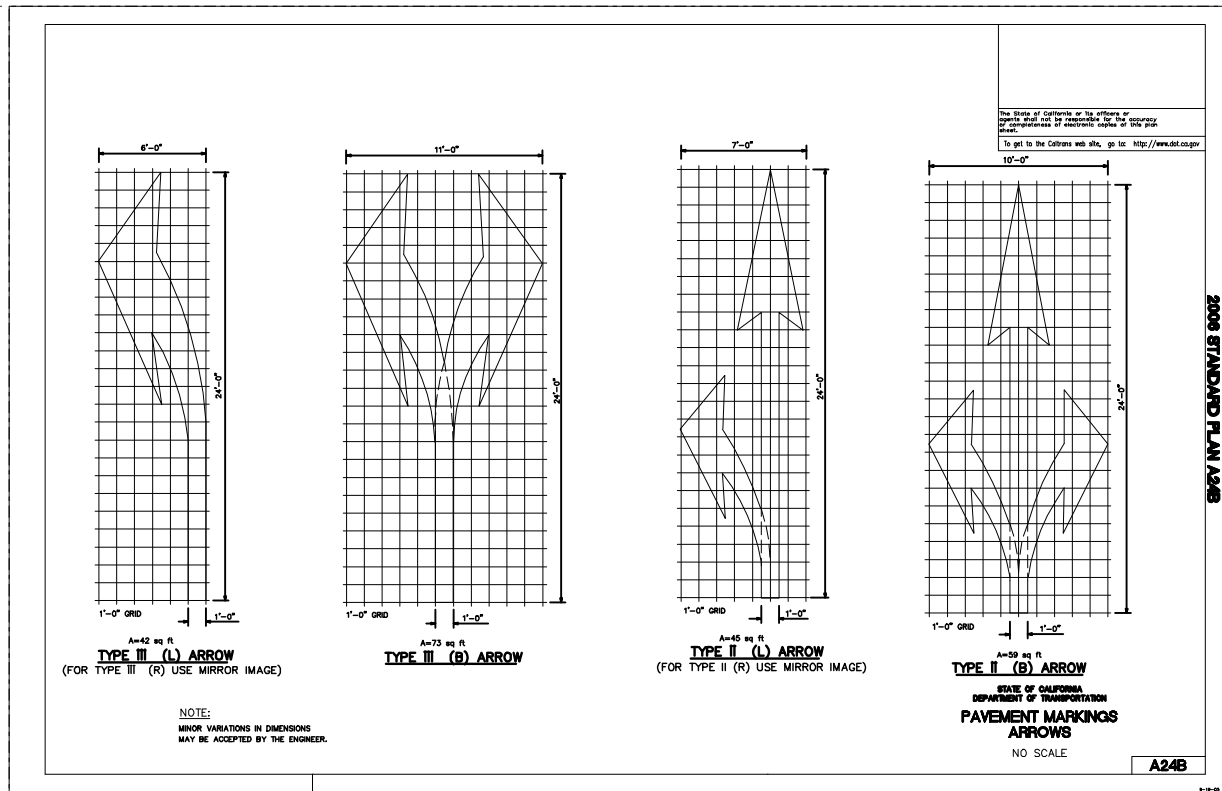
SEAL

BIJOU CREEK CULVERT REPLACEMENT PROJECT
DETAIL SHEET
SOUTH LAKE TAHOE, CALIFORNIA

DESIGNED/DRAWN
SP/PPW JD/SSEL
CHECKED
SP
DATE
12/17/10
SCALE
AS SHOWN
JOB NO.
31141040.00
FIGURE NO.

D-14

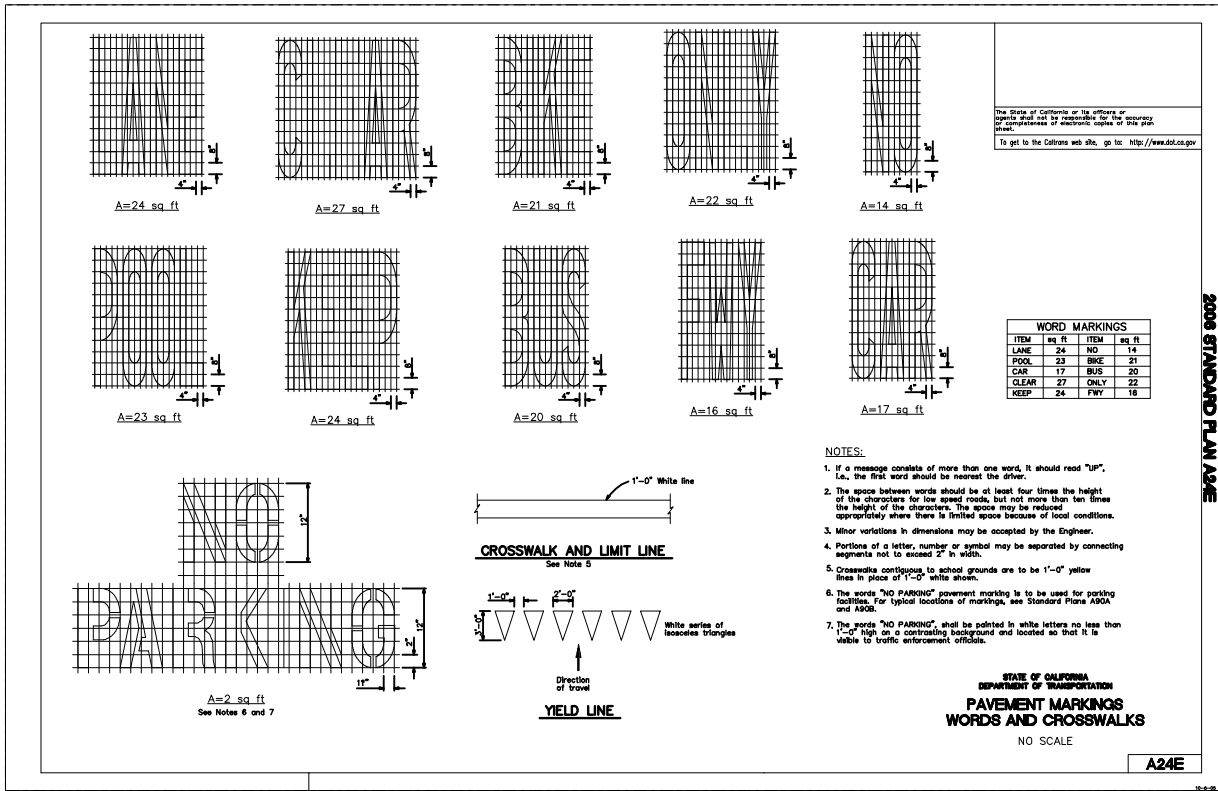
35 OF 35



PAVEMENT MARKINGS ARROWS

NTS

1
D-14



PAVEMENT MARKINGS WORDS AND CROSSWALKS

NTS

2
D-14

NOTE:

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